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Suzuki, Y., Faita, H., Tsumoda, T., Mizushima Sutano, J., Sese, J., Hata, J., J., Cta, Tsunda, T., Morishima Sutano, J., Sese, J., Hata, J., J., Lsoqii, T., Tsunda, T., Morishita, S., Okubo, K., Sakaki, J., V., Nakamuta, Y., Suyana, A., and Sugano, S., Okubo, R., Jarqe scale Diverse transcriptional initiation revealed by time, large scale
                  Bhaili ysuzukisims.n tokyo.ac.jp
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S. Construction and characterization of a full length enriched and
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Email: ysuzukijims.n tokyo.ac.jp
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Islam, M., Londacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tindey, A., von Niederhausern, A. and Wright, D., Weiss, E.
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AU103580 Sugaro Homo sapiens cDNA library Homo sapiens cDNA clone
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Institute of Medical Science, University of tokyo
Africa Shirokaneda, Minatoku, : kyo lum:8639, Japan
Email: yazukisims.u-tokyo.ac.jp
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Contact Robert B. Weiss
University of Utah Genome Center
University of Utah
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AZ761059.1 GI:12869569
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Contact: Yutaka Suzuki
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Best Local Similarity 83.3%;
Matches 15; Conservative
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Enkaryola: Metazoa: Chordata: Craniata: Vertebrata: Enteleostomi; Mammalla: Enteria: Primates: Catarrhini: Heminidae: Bomo. [Chases: 1 to 50] Suzoki.v. faira: H. Tamoda, L. Mizushima-Suvano, J., Sese, J., Hata. H., Ota, J., Laira: H., Tamaka, L., Morishita, S., Okobo, K., Sakaki. Y., Nakamira: Y., Suyama, A. and Suvano. S. majerico, Jarges scale majepina of mika start sites:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10.5 kb range using preparative againse gel electrophoresis. Vector DNA was prepared from a derivatice of pMD42 (qi14732114qab)AT12902.1), a copy-number of pMD42 (qi14732114qab)AT12902.1), a copy-number of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purilied. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EST 40-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (http://www.jax.ora/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T may polymerase and 14 polymereolide Kinase. Adaptor olinomerleatides were liquated to the blunt ends in high molar excess. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     adaptored vector DNA, and transformed into chemically-competent E. coll XLiO-Gold (Stratagene) cells and selected for ampicillin resistance."
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ADT04454 GI:13553974
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/note "Vector: PWM42nv; Purified genemic DNA from M.
musculus C578L/61 (male) was obtained from the Jackson
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/clone_lib="Mouse 10kb plasmid UUGCIM library"
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87.5%; Pred. No. 9.9e+04;
live 0; Mismatches 2; Indels
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Institute of Medical Science, University of Tokyo
Institute of Medical Science, University of Tokyo
Bushi: Sucurkisims.u tokyo.ac.jp
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Class: plasmid ends
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                                       Email: ddunn 4qeneties.utah.edu
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Suzuki,Y., Yoshi tomo-Nakatowa,K., Maruyama,K., Suyama,A. and Suqano
Sazuki,Y., Yoshi tomo-Nakatowa,K., Maruyama,K., Suyama,A. and Suqano
S. Construction and characterization of a full length euriched and
a 5' end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
Suzuki,Y., Yoshitomo Nakadawa,K., Maruyamo,K., Surama,A. and Sudano,S. Construction and characterization of a full length-curiched and a 57 end curiched cDNA library. Gene 200 (1/2), 149–156 (1997). Location/Qualificis.
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H., Ota,T., Isoqai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki
,Y., Nakamura,Y., Suyama,A. and Suqano,S.
Diverse transcriptional initiation revealed by tine, large-seale
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                                                                                                                                                       /clone_lib "Sugano Homo sapiens cDNA library"
/note "Differential display comparison of unfreated and
dimethyllumarate treated 0937 cells"
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78,9%; Pred. No. 1.4e+05;
ive 0; Mismatches 4; Indels
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/db xret "taxon:9606"
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Homo Supriens
Pukaryota Metaroa, Chordata; Craniata; Vertebrata; Enteleostomi;
Manmania; Entheria; Primates; Catarrhini; Hominidar; Homo.

1. (bases 1 to 50)
Suzuki,V., Taira,H., Tsunoda,T., Mizushima Suqano,J., Sese,J., Hata,J., V., Nakamua,Y., Suyama,A., and Suqano,S., Okubo,K., Sakaki,Y., Nakamua,Y., Suyama,A., and Suqano,S.

Puiva se transcriptional initiation revealed by line, large scale mapping of mRNA start sites

EMMO Rep. 2 (5), 488-494 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    institute of Medical Science, University of Tokyo. 4 6-1, Shirokanedai, Minatoku, Tokyo 108 8639, Japan Bandil: ysuvokielms of tokyo.ac.)p
Suzuki, ys.yo.yoshilomo Nakaabwa, K., Maruyama, K., Suyama, A. and Suqano Suvatuotion Nakaabwa, K., Maruyama, K., Suyama, A. and Suqano a S. construction and characterization of a Full Tength enriched and a 5° end enriched cDNA library, Gene 200 (1.2), 149 156 (1997).
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Snzuki,Y., Taita,H., Tshnoda,T., Mizushima Sugano,J., Sese,J., Hata
,H., eta,T., Isonai,T., Tanaka,T., Morishita,S., ekuho,K., Sakaki
,Y., Nakamina,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by time, large scale
mapping of mkNA start sites
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4 b L. Shitokanedai, Minatoku, Tokyo 108 86 cc. Japan
Bmail: ysuzuki ims.u tokyo.ac.jp
Suzuki,Y., Yoshitomo Nakorawa,K., Maruyama,K., Suyama,A. and Supano,
S. Construction and characterization of a full length enriched and
EST to AUG 2001
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AUT04460 Sugano Homo sapiens ch<mark>NA Library Homo sapiens chNA clone</mark>
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Institute of Medical Science, University of Tokyo
Institute of Medical Minatoku, Tokyo 106-8639, Japan
Email: ysuzuki ims.u-rokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Suqano
,S. Construction and characterization of a full length-curiched and
a 5'cond-curiched cDNA library, Gene 200 (1-2), 149-156 (1997).
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Diverse transcriptional initiation revealed by tine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 188-193 (2001)
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Enkaryota; Metazoa; Chordata; Graniata; Vertebrata; Enteleostomi; Mammella; Enteria; Primates; Catarrhin; Hominidae; Homo. I to 45) and to 45, Enteria; Berker, M., Bonaldo, M.F., Chiapelli, H., Chisoo, S., Dietrich, N., Dukopue, I., Favello, A., Gish, W., Hawkins, M., Hritman, M., Kucaba, I., Lacy, M., Le, M., Le, N., Mardis, E., Moore, S., Mortis, M., Parsons, J., Prange, C., Kitkin, L., Kohling, T., Schellenberg, K., Soares, M.B., Tan, F., Thierry-Meq.J., Trevaskis, E., Ruderwood, K., Wohldmann, P., Waterston, R., Wilson, R. and Marra, M. Generation and analysis of 280,000 human expressed sequence tags.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EST 06-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             double-stranded cDNA was size selected, ligated to Eco kI adapters (Pharmacia), digested with Not I and cloned into the Not I and Eco KI sites of a modified p1714 vector
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Enkaryota, Fundi, Ascomyceta, Saccharomycetina: Saccharomycetes:
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chone IMAGE: 19797-3' similar to qb:012421_cds1 PERTPHERAL-TYPE BENZODIAZEPINE RECEPTOR (HUMAN):, mKNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: est-warson.wustl.edu
This clone is available royalty-tree through LLNL ; contact the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IMANE Consortium (into Amade.linl.acv) for further information. Insert fendth: 891—874 Error: 0.00
Seq primer: mob.EBANET
High quality sequence stop: 1.
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/clone_lib "Soares_semescent_tibroblasts_NbHSF"
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4444 Forest Park Parkway, Box 8501, St. Louis, Mc 64108
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/db_xret·"GDB:1253211"
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/tissue_type "adenocareinoma"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    was excised from pHSS6 and transplaced back onto the yeast chromosome. Yeast colonies expressing lac2 were screened for in a color assay. A plasmid containing the genomic DNA/lac2 fusion junction was recovered from each individual yeast colony that expressed lac2 activity. These recovered plasmids comprise 'The blue guys library'. The fusion junction was then sequenced to identify the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA687134 LCL_CGAP_GCG1 Homo sapiens cDNA clone IMAGE:124-DEC-1997 nv59d10.si NCL_CGAP_GCG1 Homo sapiens cDNA clone IMAGE:124099 37 similar to TR:092797 092797 SYMPLEKIN, ;contains element MSRl
                                          Burns, N., Grimwade, B., Ross-Macdonald, P.R., Choi, E.-Y., Finberg, K., Roeder, G.S. and Snyder, M.
Large-scale analysis of gene expression, protein localization and gene disruption in Saccharomyces cerevisiae Genes Dev. B, 1087-1105 (1994)
95011603
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                                                                                                                                                                                                                                                                                                                                                                             Fusion: codon 346 of HOPl. Lacz Lusion; sporulation / meiosis induced expression. Disruption phenotype: as published. Beta gallusion localization pattern: cytoplasmic. Time of Beta-gal Lusion localization: monouncleate binucleate tetranucleate.
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Pred. No. 1.9e+05;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
                                                                                                                                                                                                                                                                              KBT 804, P.O. BOX 208103, New Haven, CT 06520-8103
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/db_xref "faxon:49'82"
/etone_lib="The blue quys library"
/lab_host "E.coli"
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                                                                                                                                                                                                                                                                                                                                                     Email: shirleen_roeder@quickmail.yale.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Seq primer: Lac2 sequences in transposon.
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82.4%;
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                                                                                                                                                                                                     Contact: Roeder GS
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(Pharmacia), digested with Not 1 and cloned into the Not 1 and Eco RI sites of the modified pT7T3 vector. Library
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Clone distribution: NCJ-CGAP clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                             Anote "Weetor: pT73D Pac (Pharmacia) with a medilied polylinker; Site_1: Not 1; Site_2: Eco KI; lst strand eDNA was prepared from human tonsillar cells enriched for prominal center B cells by How sorting (D200, 1qD ), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). CONA Synthesis was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A1520679 43 APR 1999 LIOGCO3.XI NYLYCGAP Pant Homo sapiens cona clone IMAGE:Z129668 37 Similar to TR:000599 000599 CONL, ; mRNA sequence.
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Enkaryota, Metazoa, Chordata, Craniata, Vertebrata, Enteleostomi,
Mammalia, Entheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCF-CGAP http://www.ncbi.nlm.nih.qov/ncfcqap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1. Double stranded cDNA was ligated to Eco RI adaptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              went through one round of normalization, and was constructed by Bento Soares and M. Falima Benaldo."

1. 14 c. 18 q. 6.1
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                                                                                                                                                                                                                                                                                                    /tissue_type "qerminal center B cell"
/tab_bost "bH10B"
                                                         Seq primer: -40ml4 fwd, ET from Amersham
High quality sequence stop: 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: cqapbs-remail.nih.gov
Lite Technologies catalog #: 11548-013
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Trace considered overall poor quality
                                Std Error: 0.00
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Zelone lib "Net CGAP Faul"
                                                                                                                                                                                                                                                                                Zelone Tib "NCL_CGAP_GCBL"
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                                                                                                                                                                                   /organism "Homo sapiens"
/db xret "taxon:9606"
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purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically competent. E. coli XLIO-Gold (Stratagene) cells and selected for ampicillin resistance."

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Ouery Match

BASE COUNT

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with adaptors complementary to the insert adaptors and

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was blunt end-repaired with 14 DNA polymerase and 14 polymerbuilde kinase. Adaptor Oligonneleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative againse gelectrophoresis. Vector bNA was prepared from a derivative of pWOA2 (gildAY2LN4) and DAFL2022.]), a copy-number inducible derivative of plasmid R1. The vector was ligated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AZ336303 | DNA | Linear GSS 29 SEP-2000 | IMOUGAGO R MOUSE LOKE PLASMID UNGCLM Library Mus musculus genomic clone UndclM0066033 R, DNA sequence.
                     /note Torqun: panereds; Vector: p-MV-SPORT6; Site_1: Sall; Ssite_2: Not1; Cloned unidirectionally. Primer: oligo dT. Average insert size 1.72 kb. Life Technologies catalog #: 18548 01:
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84112, USA
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Mammalia; Eutheria; Rodentia; Scinroquathi; Muridae; Murinae; Mus.
1 (bases 1 to 19)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Duni, D., Aoyaqi, A., Barber, M., Feacorn, T., Duval, B., Hamil, C., Stafm, H., Ionqacre, S., Mahmoud, M., Mevnen, E., Pedersen, I., Reilly M., Kose, M., Rose, M., Eose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /lab host "E. Goli strain XLRU-Gold, Il-resistant, E-"/note-"Vector: PWD42nv; Purified genomic BNA from M. musculus C578L/64 (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                         0; Caps
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                                                                                                                                                                                                                             Score 12.2; DB 9; Length 43;
Pred. No. 2e<sup>+(15</sup>;
); Mismatches 3; Indels
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/organism "Mus musculus"
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Contact: Robert B. Weiss
University of Utah Genome Center
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/clone="UUGC1M0066G03"
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/lab_host-"DH108"
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A2336303.1 G1:10405466
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82.4%;
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Best Local Similarity 82.45
Matches 14; Conservative
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TILLE

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chNA Library Arrayed by: Greq Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing October Clone distribution: NCI-CGAP clone distribution information can be
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GE:2215812 37
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Enkarycta: Metazoa; Chordata; Craniata: Verrebrata; Enteleostani;
Manmalia: Entheria: Primates; Catarrhini: Hominidae: Homo.
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Unpoblished (1997)
Contact: Robert Blansberg, Ph.D.
Email: cqapbs-remail.ndh.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 28)
NCL-CGAP http://www.ncbl.nlm.nih.gov/nclegap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                           A1567849 Throat 28 bp mkNa linear ESI 26-MAR tgB7607x1 NILGGAP_0v24 Homo sapiens chNa chore IMAGE:2215812 similar to TR:Q15215 OFS15 SALIVARY PORTING RICH PROTEIN I contains BSRLLL2 TARI repetitive element ; mkNa sequence.
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/tissue_lype="timor, 5 pooled (see description)"
/lab_host="pH10B"
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57.1%; Score 12; DB 17; Length 19;
100.0%; Pred. No. 2e+05;
ive 0: Mismatches 0; Indels
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/db_xref "taxon:9606"
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High quality sequence stop: 1.
Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /note-"organ: brain; Vector: pBluescriptk (modified pBluescript KS:); Site_1: BamH1: Site_2: Sall Xhol (aleqay ); Oliqo-dT primed using primer 5'-TTTTTTTTTTTTTTVN 8',
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                                             EST 07-MAY-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cap trapper method (Carninei, in preparation). Library constructed by M. Brownstein (NIMH/NHGR), National Institutes of Health). Note: this is a NIH_MSCLibrary."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mammalia: Eutheria: Rodentia: Sciuroquathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IMO251D16R Mouse 10kb plasmid UndVIM library Mus musculus demonic
                                                                                                                                                                                                             Eukaryola, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                         Email: cqapbs-remail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Libraty Preparation: Michael J. Brownstein (NBGRI), Shiraki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    size-selected for average insert size 2.5 kb and normalized to Rof 5. This is a primary library enriched for full length clones and constructed using the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                       #6701002 43 bp mRNA linear EST 07-MAY-20
602682183E1 NIH_MGC_95 Homo sapiens chNA clone IMAGE:4814612 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA Sequencing by: Incyte Genomics, inc.
Clone distribution: MGC clone distribution information can be found through the L.M.A.G.E. Consortium/LLNL at:
http://mane.llml.dov.br.cohumn: 21
High quality sequence stop: 43.
                                                                                                                                                                                                                                                                      NIH-MGA bitp://mgc.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sdro to
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                                                                                                                                                                                                                                                                                                                                                                                                                        Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The L.M.A.G.E. Consortium (LLNL)
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Pred. No. 2,5e(05)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /clone_lib:"NIH_MGC_95"
/tissue_type="hippocampus"
/lab_host="CH10B"
                                                                                                                                                                                                                                                                                                                                       Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Homo_sapiens"
/db_xref="taxon:9606"
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                                                                                                                                                                                                                                                         (bases 1 to 43)
                                                                                                                                                                                                                                                                                                                    Unpublished (1999)
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                                                                                mRNA sequence.
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                                                                                                                                              KEYWORDS
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10.5 kb range using preparative agarose get electrophoresis. Vector DNA was prepared from a derivative or pWHAZ (qi[4742]Ha[46]AF[129072.1], a copy number infunction dutie despitative of plasmid RU. The vector was ligated with adaptors complementary to the insert adaptors and
                                                                                                                                                                                                                                                                                Biomedical Polymers Research Bldq., 20 S. 2030 E., SEC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      =
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  polynucleotide Kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            chomically-competent E. coff XL10 Gold (Stratagene) cells and selected for amplifible resistance." u=c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ldtp://www.jax.org/resources/documents/dnares/). The DNA
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Eukaryota: Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Mammalia; Eutheria; Kodentia; Sciuroquathi; Muridae; Murinae; Mus.
Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly
.M., Rose,M., Fose,R., Stokes,R., Tingey,A., von Niederhausern,A.
and Wright,D.,Weiss,R.
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2MO002P16F Mouse 10kb plasmid 600ClM library Mus masculus genomic
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musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
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                                                                                             Mouse whole genome scattolding with paired end reads from 10kb
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Pred, No. 2,50005;
5: Indels
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Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /ordanism "Mus musculus"
                                                                                                                                                                                      Contact: Robert B. Weiss
University of Wah Genome Center
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/clone "UDGC1M0251p16"
                                                                                                                                                                                                                                                                                                                                                                                                    Email: ddunmagenetics.utah.edu
Lusert Length: 10000 Std Error
Flate: 0.55 row: D_column: 36
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AZZZST93.1 GT:12901427
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75.08;
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                                                                                                                                                             Outoblished (2000)
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Fax: 801 585 7177
                                                                                                                         plasmid inserts
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Best Local Similarity
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electrophorésis. Vector DNA was prepared from a derivative of pWD42 (qi14732114 qb]AF129072.1), a copy-number inducible derivative of plasmid N1. The vector was liqated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymerleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-solected for a 9.5 to 10.5 kb range using preparative agarose gel
                                                                                                                                                                                                                             Biomedical Polymers Research Bldg., 20 S. 2000 E., SLC, UI
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Islam,H., Londacre,S., Mahmond,M., Mornen,E., Fodersen,L., Reilly,M., Rose,M., Rose,M., Stokes,R., Lindey,A., von Niederhausern,A.
and Wright,D.,Weiss,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /note-"Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /sex="Male"
/lab_bost"E. Coli strain XLl0-Gold, F-resistant, F-"
                                                                           Mouse whole genome scattolding with paired end reads from 10kb
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86.78; Pred. No. 2.6e+05;
live 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                             Std Error: 0.00
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /ordanism."Mus musculus"
                                                                                                                                                                      University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Resc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /strain~"@5781./6J"
/db_xret "taxon:10090"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           High quality sequence stop: 22.
                                                                                                                                                                                                                                                                                                                             Email: ddunn sqenetics.utah.edu
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualitiers
                                                                                                                                                       Contact: Robert B. Weiss
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ws 14; Conservative
                                                                                                                                                                                                                                                                            Tel: 801 585 5606
Fax: 801 585 7177
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Eukemo sapienis (bunman)
Eukemyotas Wetazoas Chordatas Craniatas Vertebratas Euteleostomis Mammalias
Eutbetias Primatess Cararrhinis Hombindaes Homo.
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CENNA Library Arrayed by: Grea Leminon, Ph.D.
CENA Sequencing by: Washington University denome Sequencing Sector
Clone distribution: NCT-CGAP clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tx94c06.x1 N°1_CGAP_U44 Homo Sapiens cDNA clone IMAGE:2277226 3° similar to SW:BA12_HUMAN P48644 LARGE PROLINE RICH PROTEIN BA12 ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
Enkaryota: Metazoa; Chordata; Chanjafa: Verlebrata; Enteleostomi;
Mammalia; Entheria; Primates; Cataribini; Hominidae; Homo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: ctapbs-romail.nih.qov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 3)
NOT+SAF http://www.nebi.nlm.nih.gov/neiedap.
National Cancer Institute, Cancer Genome Anatomy Project (CSAF),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zelone_lib "434 (synonym: htes!). Vector psportl; host
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                         Please contact the RZFD: Ressourcenzentium, Heubnerwey 6, 14059
Berlin-charlottenburg, GERMANY; Email: clone Arybd.dc
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O
                                                                                                                                Wambutt R., Beubner D., Mewes W., Gassenhober J., Wiemann S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     56.2%; score 11.8; DB 2; Length 35; 86.7%; Pred. No. 2.9e+05;
                                                                                                                                                                    Submitted (12-MAR-1999) to the EMRL/GenRank/DDBJ databases.
                                                                                                                                                                                                                               Wiemann, sequenced by AGOWA within the CDNA
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www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                        MIPS, Am Klopterspitz 18a D:82152 Martinsried, GERMANY
                                                                                                                                                                                                                                                     consortium of the German Genome Project
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                                                                                                                                                                                                                                                                     st sequence also available.
This clone is available at the KZPD in Berlin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 45 HP; 2 A; 8 C; 19 G; 4 T; 2 other;
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Insert Length: 1211 std Error: 0.00
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/dev_stage "adult"
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/elone "DKFZp444N013"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert Strausberg, Ph.D.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue_type "testis"
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                                                                                                                                                                                                           Zhotë "Organ: uterus; Vector: pCMV SPORT6; Site_1: Sall;
Site_2: NoTf; Cloned unidirectionally. Primer: oliqo dT.
Average insert size 1.48 kb. Lite Technologies catalog #:
11542-016"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryotai Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Ammania; Eutheria; Rodentia; Sciuroquathi; Muridae; Murinae; Mus. [ (bases 1 to 41)] Chases 1 to 44) Harber, M., Hoseorn, T., Duval. B., Hamil, C., Islam, D., Aoyaqi, A., Barber, M., Hoseorn, T., Duval. B., Hamil, C., Islam, H., Kose, M., Rose, R., Stokes, R., Tinqey, A., von Niederhausern, A. and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AZZ460654 linear GSS 04-00T-200
IMO266POlF Mouse 10kb plasmid UUGCIM library Mus musculus qenomic
                                                             /db_xret="taxen:gdof""
/clone | Inb "NCI_CGAP_U4"
/clone | Ib "NCI_CGAP_U4"
/rissnettype "serous papillary carcinoma, high grade, 2
/rish_bost "DHIOB"
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/sex="Male"
                                                                                                                                                                                                                                                                                                                                                             Score 11.8; DB 9; hendth 37;
Pred, No. 2.9e+05;
0; Mismatches 2; Indels
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/organism "Mus musculus"
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Contact Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /strain "C57BL/6J"
/db_xret "taxon:10090"
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High quality sequence stop: 1.
Location/Qualitiers
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86.7%;
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Fax: 801 585 7177
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                   FEATURES.
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Rm. 308, Biomedical Polymers Research Bidg., 20 S. 2030 E., SLC, UT
                                                                                              polynucleotide kinase. Adaptor oliqonucleotides were
liqated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciuroquathi; Muridae; Murinae; Mus.
L. (bases 1-10-42)
0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with 14 DNA polymerase and 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IM0141N02F Mouse 10kb plasmid UD001M library Mus musculus genomic clone UUGC1M0141N02 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 (bases 1 to 42)
burn. D., Avyadi, A., Barber, M., Beacorn, T., Duval, B., Bamil, C.,
Islam, H., Londacter, S., Mahmend, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zlab host "E. Coli strain XL10 cold, Tl resistant, F "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mouse whole genome scattolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        O; Gaps
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Pred. No. 3e+05;
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Seq primer: CGTFGTAAAACGACGCCAGE
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/db_xret "taxon:10090"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bigh quality sequence stop: 42.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Localion/Qualitiers
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86.7%;
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Fax: 801 585 7177
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Best Local Similarity
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Eukaryoja, Metazoa, Chordata, Craniata, Vertebrata, Enteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 50)
Suzuki,Y., Taita,H., Tsunoda,T., Mizushima-Suqano,J., Sese,J., Hata
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AUTO-1997 Bindano Homo sapiens cDNA library Homo sapiens cDNA clone
AUTO-1997, mRNA sequence.
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Eukaryota; Metazoa; Chordata; Craniata; Verfebrata; Eufeleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ,Y., Nakamura,Y., Suyama,A. and Suqano,S.
Diverse transcriptional initiation revealed by line, large-scale
mapping of makes start sites
EMBO Rep. 2 (5), 388-393 (2001)
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dimethyliumarate treated 0937 cells"
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4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzukiłims.u-tokyo.ac.jp
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/db_xref="taxon:9606"
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Contact: Yutaka Suzuki
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UNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
tound through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                    10.5 Kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gil4732114[ab]AF129072.1), a copprunmber inducible derivative of plasmid Rl. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EST 27-JAN-1998
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                                                                                                                                                                                                                                                                                                                                                                                adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance." \frac{1}{2} = \frac{1}{2} + \frac{
                                                                                                                                           adaptored DNA was purified and size-selected for a 9.5 to
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0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucloctide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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Non-directionally cloned. Size-selected on adarose yel,
average insert. size 600 bp. Reference: Krizman et al.
(1996) cancer Research 56:5380-5383."
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NCI-CGAP http://www.ncbi.nlm.nih.qov/ncicqap.
National Cancer institute, Cancer Genome Anatomy Project (CGAP),
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similar to SW:ATP6_HUMAN P00846 ATP SYNTHASE A CHAIN ;, mRNA
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/lab_host="DH108"
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Insert Length: 825 Std Error: 0.00
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Location/Qualifiers
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Finstitute of Medical Science, University of Tokyo

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Suzuki, Y., Yoshifomo-Nakadada, K., Mathyama, K., Suyama, A., Suyama, 
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2185239 seqs, 1125999159 residues

Searched:

Minimum DE seq length: 0 Maximum DB seq length: 50

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Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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MESULE 1 AAD 4445 S TO AAD 4445 Standard; DNA; 20 BP. XX AAD 44454; XX AAD 44454; XX XX XX AAD 44454; XX XX XX Undefine junction antisense oliaonu XX XX XX Undefine junction antisense oliaonu XX XX Undefine general splice junction antisense oliaonu XX XX Undefine myelome; melanoma; haematopoietic XX	onn; 20 BP entry) cction and factor; Te danoma; he affer hard affe	relectide. rr. thymoma disease: t	; derm cell tumour; hrombocytopaenia;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       blocking agent fronted buman stem cell compositions which are capable of rapid in vivo recensification of the harmatopoletic system of a subject. The composition compalies a cell population can iched for human stem cells, the stem cells treated ex vivo with an oliqumen antisense to the base of the vivo man and differentiation state of the stem cells is preserved in culture longer than stem cells not subjected to 7GF-beta antisense treatment. The human stem cell composition is baseful to promoth a fitte rapid entarthment of long term repopulation and facilitate the rapid proliferation of LTR-HSC in vivo administration and facilitate the rapid proliferation of LTR-HSC in vitro. The HSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         including ovarian cancer, thymomas, germ cell tumours, multiple myeloma, melanoma, testicular cancer, lung cancer and brain cancer as well as for other non-malignant hacmalopoietic diseases, e.g. thrombecytopaenia.
                                                                                                                                                                                            e.g. ovarian cancer, melanoma, testicular cancer, lang cancer or brain cancer, as well as for other non-malignant homatopoietic discusses, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                      The present invention relates to transforming growth factor (IGF) beta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequences of the invention are also used in gene therapy. The present sequence is YGF betal splice junction antisense oligonucleatide.
                                                                                                                                                           New buman stem cell camposition, useful for freating various cancers,
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Bartelmez SH, Iversen PL;
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                                                                                                     the coding region of a novel membrane-translocating peptide sequence (MTS: AA228749). The invention relates to the use of the MTS peptides for generating fusion proteins which can be used for the production of polypeptides of interest such as Schistosoma japonicum quiathione S transferase, an adenovirus B 19K protein or a mammalian p53 protein. Fusions of the peptides can also be used for inducing an immune response
                                                                                                                                                                                                            in a mammal using e.g. a viral polypeptide such as hepatitis B surface untiqen. They can also be used for protecting a subject from an infectious agent using a polypeptide that inhibits reproduction of the intectious agent such as a protease inhibitor. They can also be used for treating cancer using a polypeptide tumor suppressor such as p53 protein or a polypeptide tumor repressor such as p53 protein or a polypeptide inhibitor of B61-2. The methods can be used for treating canine, felline and bovine diseases and also for studying
                                                                                      Sequences AAZ28750-Z28757 represent truncated coding regions based on
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peptides containing a membrane-translocating sequence used to
                                                                                                                                                                                                                                                                                                                                                                                                             79.0%; score 15.8; DB 20; Length 23;
89.5%; Pred. No. 4.4e+02;
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                  develop products for use in, e.g. varcines
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                                                    Disclosure; Page 9; 85pp; English.
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                                                                                                                                                                                                                                                                                                                                          intracellular proteins.
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Sequences AA228750-Z28757 represent truncated coding regions based on the coding region of a movel membrane translocating peptide sequence (MIS, AAZ28749). The invention relates to the use of the MIS peptides

Disclosure; Page 9; 85pp; English.

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Membrane-translocating peptide sequence; MTS; fusion protein; production; Schistosoma japonicum; quutathione S transferase; adenovirus; mammal; p53; immune response; hepatitis B virus; surface antiqen; canine; feline; protease inhibitor; cancer; tumor suppressor; bovine; ss.
             polypeptides of interest such as Schistusoma japonicum quiathione Stransferase, an adenovirus E3 19K protein or a mammalian p53 protein. Phasions of the peptides can also be used for inducing an immune response in a mammal using e.g. a viral polypeptide such as hepatifis B surface antiqen. They can also be used for protecting a subject from an infectious agent using a polypeptide that inhibits reproduction of the infectious agent such as a protease inhibitor. They can also be used for treating capture using a polypeptide tumor suppressor such as p53 protein or a polypeptide inhibitor of B31-2. The methods can be used for a polypeptide inhibitor of B31-2. The methods can be used for
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generating fusion proteins which can be used for the production of
                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fruncated membrane-translocating peptide sequence coding region #3.
                                                                                                                                                                                      or a polypeptide inhibitor of Bel-2. The methods can be used for treating canine, feline and bovine diseases and also for studying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New peptides containing a membrane-translocating sequence used to
                                                                                                                                                                                                                                                                                                                                                        :
                                                                                                                                                                                                                                                                                                               Length 27;
                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                               79.0%; Score 15.8; DB 20;
                                                                                                                                                                                                                                                                                                                                     3.40+02;
                                                                                                                                                                                                                                                                      Sequence 27 BP; 1 A; 10 C; 4 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         levelop products for use in, e.g. vaccines
                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                     Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tan 2J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 9: 85pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA228752 standard; DNA; 30 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rojas M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9805-0080083.
9805-0186170.
                                                                                                                                                                                                                                                                                                                                   89.58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99WO-US07189.
                                                                                                                                                                                                                                                                                                                                                                                             1 GCAGCAGTICTTCTCCGTG 19
                                                                                                                                                                                                                                                                                                                                                                                                                     1 GCAGGGGTTCTTCTCCCTG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (tirst entry)
                                                                                                                                                                                                                                                                                                                                   Local similarity 89.5
es 17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (UYVA-) UNIV VANDERBILT.
                                                                                                                                                                                                                               intracellular proteins.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Donahue JP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1959-610819/52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           P-PSDB; AAY44164.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 - MAR - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04 - NOV - 1998;
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                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AA228752:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Lin Y.
                                                                                                                                                                                                                                                                                                                                                        Matches
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Treating cancer using a polypeptide tumor suppressor such as p5 (protein or a polypeptide inhibitor of Ref 2. The methods can be used to:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       in a mammal using e.g. a vital polypeptide such as hepatitis B surface antique. They can also be used for protecting a subject from an infectious agent using a polypeptide that inhibits reproduction of the infectious agent such as a professe inhibitor. They can also be used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating cancer using a polypeptide tumor suppressor such as p54 protein or a polypeptide inhibitor of Ref-2. The methods can be used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pusions of the peptides can also be used for inducing an immune response
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequences AZ28750 z28757 represent truncated coding regions based on the coding region of a novel membrane translocating peptide sequence (MIS: AZ28749). The invention relates to the use of the MIS peptides for the quierating quision proteins which can be used for the production of polypoptides of interest such as Schistosoma japonicum glutathione Stransferase, an adenovirus El 19K protein or a mammallan p53 protein.
                                                                                                                                                                                    SdPo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Truncated membrane-transfocating peptide segmence coding region #4.
                                       freating canine, feline and bovine diseases and also for studying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New peptides containing a membrane translocating sequence used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treating canine, teline and bovine diseases and also for studying
                                                                                                                                                                                    :.
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                                                                                                                                          Length 40;
                                                                                                                                                                               Inde [8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protease inhibitor; cancer; tumor suppressor; bovine; ss.
                                                                                                                                                                                    7 ;
                                                                                                                                      79,0%; Score 15,8; DB 20;
                                                                                                                                                       Prod. No. 3, 54:02;
0; Mismatches 2
                                                                                               Sequence 30 BP; 1 A; 12 C; 5 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 44 BP; 2 A; 13 C; 6 G; 12 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      develop products for use in, e.g. vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lan 2.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure: Page 9: 85pp; English.
                                                                                                                                                                                                                                                                                                                                                               AAZZ8753 standard; DNA; 33 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   980S 0080083.
                                                                                                                                                             89.5%
                                                                                                                                                                                                                       1 GCAGCAGLECTENT/CGGEG 19
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                                                                                                                                                                                                                                           1 GNAPOGEFORETOTOTE 19
                                                                                                                                                                                                                                                                                                                                                                                                                                            Ol FEB 2000 (first entry)
                                                                                                                                                                             17; Conservative
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                                                       intracellular proteins.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI: 1999 610819752.
                                                                                                                                                             Best Local Similarity
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                                                                                                                                      Querry Matech
                                                                                                                                                                                                                                                                                                                                                                                                   AA2.28754;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  translocating peptide sequence (MTS). The invention relates to the use of the MTS peptides for generating tusion proteins which can be used for the production of polypeptides of interest such as Schistosoma japonicum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The methods can be used for freating canine, felline and bovine discusses
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pts protein. Fusions of the peptides can also be used for inducing an immune response in a mammed using e.g. a viral polypoptide such as behalf its 8 surface and your distinctions to used for protection a subject from an intectious agent using a polypoptide that inhibits representations are also supported to the control of the inhibits are also beyone as a protection. They can also be used for treating cancer using a polypopide function suppressor such as p53 protein or a polypopide function.
                                            gabe
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      professe inhibitor; cancer; tumor suppressor; bovine; ss.
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                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Membrane translocating peptide sequence coding region.
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89.5%; Pred, No. 3.50002;
ive 0; Mismatches 2;
4,140102;
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                                     Mismatches
       Pred No.
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                                                                                                                                                                                                                                                                                                                                                                  AAZZ8749 Standard; DNA; 34 BP.
   1871, 178
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                                                                                                                                                 Leavenging Price 19
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                                                                                                               1 GYASPAGI FOLLFOROGIG 19
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                                         17; Conservative
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       Rest Local Similarity
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                                         Matches
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RESULT 7

79.0%; Score 15.8; DB 20; Length 33;

Corety Match

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% PCR primer, used with a 5' primer (AAZ19812) in the construction
of a vector encoding a tusion protein comprising anti-574
anti-oral single chain antibody by tragment (514sePv,
AAY42244), the membrane translocating sequence and the P450R
derivative, anchorless P450R (AAY42287), construction of this
tusion protein enables it to be delivered to other cells where it is
then transported to the mucleus. Many droats' sites of action are in the
nucleus, rather than the cytoplasm, where P450R normally functions.
P450R or its derivatives can be used to active prodrams to their active
                                                                                                                                                                                                                Cytochrome; targetting; localisation; cancer; tumour; prodrug; reduction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      specifically used to treat tumours, inflammation, atherosclerosis and muscular dystrophy, but may also be used to treat many other conditions, e.g., cerebral malaria, rheumatoid arthritis, or conditions associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              active drug may be metabolised before it reaches its site of action or where the active drug is cytotoxic, e.g., anticancer drugs. P450k derivative fusion proteins, or vectors that express them, are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               with hypoxia, ischaemia or hypoqlycemia, or to deliver antibiotics, antiviral agents, analyseics, anaesthetics, anti-inflammatories,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New prodrug activating agent targeted to selected cells or tissues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patterson AV, Kingsman SM, Kan O, Griffiths L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .;
©
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          particularly hypoxic cells, for treating e.g. tumors -
                                                                                                                                                                      Membrane translocating sequence (MTS) 3' PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 15.8; DB 20;
Pred. No. 4.6e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 39 BP; 13 A; 6 C; 16 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antimeoplastic agents and diagnostic agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 9: Page 127; 187pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (OXFO+) OXFORD BIOMEDICA UK LID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA207779 standard; DNA; 39 BP
                        AAZI'4813 standard; DNA; 39 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               74.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     89.58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 980004841.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            48GB-0018103.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99GB-0002081.
                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-GROD674.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    es d'Aggratici et el 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 G'AGGAGITCTICTCGGTG 19
                                                                                                                    06-DEC-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17; Conservative
                                                                                                                                                                                                                                         nucleus: PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI: 1999-551046/46.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Loral Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mitrophanous K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Strattord 1J,
                                                                                                                                                                                                                                                                                                                                        With 145-127-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                    05 MAP 1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29 JAN 1999;
                                                                                                                                                                                                                                                                                                                                                                                     10-SEP-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06 - MAR - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-AUG-1998;
                                                                                                                                                                                                                                                                                         Synthetic.
                                                                          AAZ 19814;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAZ07779;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
AAZ19813/0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA20779/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ē
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(i) a localization domain (ID; other than a tumor-selective antibody) and a produce activating domain (PAD); (ii) at least one nucleic acid encoding a cytochrome P450 and under control of at least one constitutive or inducible expression control sequence or (iii) a modified mental enem cell (MMSC) containing at least one nucleic acid encoding a PAD and under control of elements as in (ii). The produce activating agent or vectors that express them, are specifically used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              may also be used to treat many other conditions, e.g. cerebral majaria, theumatoid arthritis, or conditions associated with hypoxia, hypedycenia or ischemia, or to deliver antibiotics, antiviral agents, analysis, analysis, and despise, anti-inflammatories, antiheoplastic agents and diagnostic agents. But optimize activity to PAD, e.g. by delivering it to selected locations or by delivering it to neighboring cells (bystander effect).
                                                                                                                                                  Prodrug, localization domain; tumor-selective antibody; cytochrome P450; prodrug activating domain; modified hematopoietic stem cell; MHSC; tumor; inflammation; atheroscletosis; muscular dystrophy; cerebral malaria; thenmatoid athritis; hypoxia; ischemia; hypochycemia; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          and allow a reduction in dose of product, and thus of systemic side-
effects. Nucleic acids encoding the agent may be expressed selectively
in hypoxic cells, Sequences AX20778-79 represent primers for amplitying
a membrane translocating sequence (MTS). This is used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              treat tumors, inflammation, atherosclerosis and muscular dystrophy, but
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the invention provides a new prodrug activating agent that comprises:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New produug activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors or inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    construction of a vector expressing a fusion protein comprising a 514sePv, homan P450 reductase derivative alP450R and a M1s.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kan o, Crittiths L;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ä
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                                                                         Memebrane transforating sequence (MIS) amplifying 3' primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patterson AV, Kingsman SM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                            membrane translocating sequence; MTS; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 9B; Page 92; 149pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (CXFO-) OXFORD BIOMEDICA UK LID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABKilso4 standard; DNA; 43 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99W0-5B00672.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99GB-0002081.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S9 GYAPAGHATHATH H
23-NoV-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Comservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-540852/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mitrophanous K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Strattord 1.1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MO9945126-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         116. - MAR - 1398;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10-SEP-1349.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1,4,48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JAN 1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17;
                                                                                                                                                                                                                                                                                                                                                                                         synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABK11804;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-AHG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABK 11804
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6 ONAGO BELLETTOTONICE 24

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intections, including equine or boying herpesvirus, Marek's disease tirus in chickwens and other towals, animal retroviral diseases, pseudorables and tables. The present nucleic acid sequence encodes the pcDNA+EZ/MIS peptide used in the methods of the invention for the denotation of
                                                                                                            immune response; eytotoxic T lymphocyte; tumour; cancer; pebNA: E7/MTS; chronic viral infection; veterinary herpesvirus infection; pseudorabies; equine herpesvirus; bovine herpesvirus; Marck's disease virus; chicken;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             encodes a fusion polypeptide. The fusion protein comprises a first polypeptide comprision at least one intercellular transport polypeptide comprision at least one antigonic polypeptide or peptide. The invention also describes an optional linker peptide or peptide. The invention also describes an optional linker peptide or peptide. The invention also describes an optional linker peptide a vaccine for enhancing immune responses, the primarily cytotoxic I lymphocyte responses to specific antiques such as unnon or viral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New nucleic acids encoding fusion polypeptide comprising intercellular transport polypeptide linked to antiquence polypeptide, useful as therapeutic vaccine for cancer and major chronic viral infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antiques. The compositions comprising the nucleic acids are especially useful as a therapeutic vaccine for cancer and for major chronic yiral infections, as well as in the treatment of veterinary herpesvirus
                                                                                                                                                                                                                                                                                  a "also, the 5' end of the complementary strand overhands the 3' end of this strand by the sequence 5' AGPT-3'"
                                                                                          Wirnelde, eytostatie, vaceine, intereellular transport, antiqenie,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to a new nucleic acid molecule that
                                                                                                                                                                                                                                                                                                                                                                                                                                  Znote: "This sequence lacks a stop codon"
                                                                                                                                                                                                                                                                                                                                                                                                                  "pedNA4-E7/MTS peptide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 43 BP; 4 A; 18 C; 7 G; 14 T; 0 other;
                                                       DNA encoding synthetic pepNA3 E7/MIS protein.
                                                                                                                                                                     towl; animal retrovital disease; rabies; ds.
                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 1; Page 39; 102pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pedNA* E7/MTS expression vector.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of Aug 2000; 200008 222185P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of Aug 2001; 2001Wo US23966.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           268575P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             04 · APR · 2001; 20010S · 281004P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SNIMAGE SUBOL VINU ( OLYU)
                 OS JUN Zooz (first entry)
                                                                                                                                                                                                                                                                                                                                                                              _
                                                                                                                                                                                                                                                                                                                                                                                                /partial
                                                                                                                                                                                                                                                                                                                                                                                                                    /product
                                                                                                                                                                                                                                                                                /*tag.
                                                                                                                                                                                                                                                                                                     /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-257467/30;
P-PSDB; AAU77231;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           200108
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                                                                                                                                                                                                                                                              misc_teature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15 FEB 2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07 FEB 2002.
                                                                                                                                                                                                           Synthertic.
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antiquen secreted sintle chain antibody EV fradment (ClasePy, AAM4229), the month one translocating sequence and the P4'OR derivative, anchorless P4'OR (AAV42207), construction of this busion protein enables if to be delivered to other cells where it is then transported to the nucleus. Many drugs' sites of action are in the nucleus, a after than the extopplasm, where 94'OR normally functions. P4'OR or its derivatives can be used to activate products to their active form via reduction. Administration of a product is needed to their active.
                                                                                                                                                                                                targetting; localisation; cancer; tumour; prodrug; reduction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      derivative fusion proteins, or vectors that express them, are
specifically used to freat fumours, inflammation, atheroselerosis and
museular dystrophy, but may also be used to freat many other conditions,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                e.g., cerebral malaria, theumwatoid arthritis, or conditions associated with hypoxia, ischaemia or hypothyeamia, or to deliver antibiotics, antibiotics, analquesics, anaesthetics, anti inflammatories,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  active drug may be metabolised before if reaches its site of action or
where the active drug is cytotoxic, e.g., anticancer drugs. P450k
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      S4 P5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                57 PCR primer, used with a 37 primer (AAZ19813) in the construction of a vector encoding a fusion protein comprising anti-544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New prodrug activating agent targeted to selected cells or tissnes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chittins La
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This sequence represents a membrane translocating sequence (MTS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        79.0%; Score 15.8; D8.20; Londth 46; 89.5%; Prod. No. 3.7e+02; ive 0; Mismatches 2; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                particularly hypoxic cells, for freating e.g. fumors
                                                                                                                                                        Membrane translocating sequence (MIS) 5' PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patterson AV, Kingsman SM, Kan o.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 46 BP; 4 A; 19 C; 9 G; 14 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antineoplastic agents and diagnostic agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 9; Page 127; 187pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (OXEO ) OXEORD BIOMEDICA UK LID.
                                       AAZ19812 standard; DNA; 46 BP
                                                                                                                                                                                                                                                                                                                                                                                99WO GROOF/4.
                                                                                                                                                                                                                                                                                                                                                                                                                     38CH 0004841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               89.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             PERMIT OR SURE
                                                                                                                                                                                                                                                                                                                                                                                                                                        98034 00 ) 810 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 GOARDAGER TO FORCE 19
                                                                                                                   O6-DEC 1999 (first entry)
                                                                                                                                                                                                                     mucleus; PCK; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WP1: 1999 551046/46.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mitrophanous Kr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Strattord LJ,
                                                                                                                                                                                                                                                                                                WO9945127 AZ
                                                                                                                                                                                                                                                                                                                                                                           05 - MAR - 1999;
                                                                                                                                                                                                                                                                                                                                                                                                                     06-MAR 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                          : H4, f,
                                                                                                                                                                                                                                                                                                                                                                                                                                                             23 JAN 1933;
                                                                                                                                                                                                eytochrome;
                                                                                                                                                                                                                                                                                                                                        US SEE 1433
                                                                                                                                                                                                                                                          Synthetic.
                                                                           AA219812;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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RESULT TO
                  218812
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1 GMGMGTTCTTCTCCGRG 19

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17; Conservative

Similarity

Best Local

Matches

SdPO

: :

indels

Length 43;

79.0%; Score 15.8; DB 24; 89.5%; Pred; No. 3.6e:02; Uive 0; Mismatches 2;

HILL HILLIHI III

ABA95108 standard; DNA; 23 BP

ARA9510870

IGFbetal gene specific probe.

(tinst entry)

20-MAY - 2002

ABA95108;

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(i) a localization domain (LD) other than a tumor-selective antibody) and a prodrug activating domain (PAD); (ii) at least one nucleic acid encoding a expression control sequence or (iii) a modified hematopoletic stem cell (MHSC) containing at least one more acid encoding a PAD and under control of elements as in (ii). The prodrug activating agent or vectors that express them, are specifically used to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treat tumors, inflammation, atherosclerosis and muscular dystrophy, but may also be used to treat many other conditions, e.g. cerebral malaria, rhowmatoid arthritis, or conditions associated with hypoxia, hypoglycemia
                                                                                                                                                                            Prodras: localization domain; tumor-selective antibody; cytochrome P450; prodrug activating domain; modified homatopoictic stem cell; MHSC; tumor;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      or ischemia, or to deliver antibiotics, antivital agents, analgesics, anesthetics, anti-inflammatories, antineoplastic agents and diagnostic agents. LD optimize activity of PAD, e.g. by delivering it to selected locations or by delivering it to neighboring cells (bystander effect), and allow a reduction in dose of prodrug, and thus of systemic sidereflects. Nucleic acids encoding the agent may be expressed selectively in hypoxic cells. Sequences AAZ07778-79 represent primers for amplifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention provides a new prodrug activating agent that comprises:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New prodring activating agent targeted to selected cells or tissues, particularly hypoxic cells, for treating e.g. tumors or inflammation
                                                                                                                                                                                                                      intlammation; atherosclerosis; muscular dystrophy; cerebral malaria; rheumatoid arthrilis; hypoxia; ischemia; hypoxlycemia; PCR primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a membrane translocating sequence (MTS). This is used in the construction of a vector expressing a fusion protein comprising a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Grittiths L:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .;
o
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                                                                                                                                         Memebrane translocating sequence (MTS) amplitying 5' primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       514seFv, human P450 reductase derivative alP450k and a MIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patterson AV, Kingsman SM, Kan o,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 4.7e+02;
); Mismatches 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 46 BP: 4 A: 19 C: 9 G: 14 T: 0 other;
                                                                                                                                                                                                                                                           membrane translocating sequence; MTS; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 9B; Page 92; 149pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (OXESS) OXFORD BIOMEDICA UK LID.
                  AAZU7778 standard: DNA; 46 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               98GB-0004841.
                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-CB00672.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99GB-0002081.
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                                                                                                 23-NoV-1999 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mitrophanous K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Stratterd 1J,
                                                                                                                                                                                                                                                                                                                                                                                                                        15 - MAR - 1999;
                                                                                                                                                                                                                                                                                                                                         Wor9-345126-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                               06 MAR 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-A0-1998:
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                                                                                                                                                                                                                                                                                                                                                                                  10 - SEP - 1999.
                                                                                                                                                                                                                                                                                                     Synthay ic.
                                                          AAZ=1778;
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AA207778
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iactor beta 1 (18Fbetal), atrial natriuretic factor (ANP), collagen 1 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        kidney and/or brain, e.g. coronary artery disease, aneurysm, embolism, arteriosclerosis, atherosclerosis, myocardial infarction, thrombosis, stroke, andina. Vascular plaque inflammation, vascular plaque ruptone, Kawasaki disease, vascular or valvar calcilication, trauma-, surgically-bacterial- or viral anduced inflammation. The use of epterenoue in conjunction with the aldosterone receptor antaqonist markedly attenuates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   III, eyelewaseachase.2 (COX-2), osteopontin, monocyte chembatthactant protein-1 (MCP-1), intercellular adhesion molecule-1 (ICAM-1), vascular adhesion molecule-1 (VCAM-1) and a reterence cyclophilin, used in the
                                                                                                                                               Aldosterane; cyclooxygemase-2; cardiovascular; epherenone; cardiant; vasotropic; antiarterioseleroite; cerebroprofective; thrombolytic; rat: antiantiantians antiantiantamatory; vulnerary; antibactorial; virucide; ss; nephrotropic; transforming arowth factor beta 1; 10Flevtal; probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             injury. Sequences ARA95106-138 represent TagMan primers and probes designed from known sequences of rat genes such as transforming growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Method for freating or preventing inflammation-related cardiovascular disorders comprises administration of an aldosterone antagonist and cyclooxyvenase-2 inhibitor combination.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  inflammation-related cardiovascular disorder. The method involves administration of an aldosterone antagonist and cyclooxygenase-2 inhibitor combination or their salts. The method is used to treat or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the initial vascular inflammatory response and subsequent myocardial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          prevent inflammation-related cardiovascular disorders in the heart,
                                                                                                                                                                                                                                                                                                                                                                                b
"3'-6.earboxy-N,N,N',N'-tettamethylrhodamine
(TAMRA) quencher dye"
                                                                                                                                                                                                                                                                                                                            a
"Tabeled with 6-carboxylluorescein (6FAM)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention provides a method for treating or preventing an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    77.0%; Score 15.4; DH 24; Lenuth 23; 94.1%; Pred, No. 5.2e+02; ive 0; Mismatches 1; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 23 BP: 8 A; 7 C; 5 G; 4 L; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 18; Page 160; 273pp; English.
                                                                                                                                                                                                                                                                                  Location/Onalitiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rocha R, Zack MD, NcMahon EG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-JUL-2001; 2001Wo ($23601.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       27-JUL-2000; 20000S-221364P.
12-JAN-2001; 20010S-261497P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 course of the invention.
                                                                                                                                                                                                                                                                                                                                                                24
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Rest Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   vascular inflammation and cardiac tissue damage. The damage induced by the treatment was proceeded by an inflammatory response characterised by uproquiation of proinflammatory melecules. Administration or epheronous markedly attenuated this fulfill by Assentar inflammatory response and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             coronary artery disease; aneurysm; arterioseferosis; anaina; myocardial intarction; embolism; stroke; thrombosis; Kawasaki disease; vascular plaque inflammation; vascular plaque rupture; calcification; vascular parterior; per primer; ss;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REPER (reverse transcriptuse PER) primer for a rat gene encoding a molecule involved in regulation of inflammation whose expression may be aftered by administration of an aldosterone blocker.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Treating or preventing an inflammation related disorder e.g. coronary affects disease, amonysm, after loselerosis and myocardial infarction, comprises treatment with an aldosterone blocker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             viral induced inflammation; cardiovascular disorder; atheroselerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (occurring in tissue or organs), such as trauma induced inflammation,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            myocardial infarction, embolism, stroke, thrombosis, anqina, vascular
plaque inflammation, vascular plaque rupture, Kawasaki disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         calcification (e.g. vascular calcification and valvar calcification) and inflammation) or cardiovascular disorder which occurs in whole or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  coronary artery disease, ameurysm, arteriosclerosis, atherosclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vascular inflammation; cardiac tissue damage; inflammatory response;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          surgically induced inflammation, bacterial induced inflammation or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        subsequent myocardial intarction. The aldosterone blocker is used for freating or preventing inflammation related disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      in part in the Kidney, brain or heart. The present sequence is an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   surgically induced inflammation; bacterial induced inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         viral induced inflammation, e.g. cardiovascular disorders (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inflammation-related disorder; trauma induced inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rat transforming growth factor betal RT PCR primer #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 23 BP; 8 A; 7 C; 5 G; 3 T; 0 office;
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                                                                                                                                                                                                                                                                   ABK10365 standard; DNA; 23 BP
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12-JAN 2001; 2001US 261452P.
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23 02AGLECTE 1 0111
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       aldosterone blocker.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  W0200209683 AZ.
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                                                                                                                                                                                                                              ABK 10 465/c
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Score 15.4) DR 24; Length 23; Pred. No. 5.2002;

77.0%;

94.1%;

Best Local Similarity

Onerry Materia

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Caspase 8; infection; inflammation; tumour; research reagent; eytostatic; que therapy; autisense; mouse; phosphorothioate; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New antisense compounds capable of modulating expression of easpase M for the diagnoses, prophylaxis and freatment of diseases associated with expression of easpase M, e.g. inflammation and tumor formation
                                                                                                                                                                                                                                                                                                                    Anotherse of
HER Anote "z' methoxyethyl (z' MoE) nucleotides"
                                                                                                                                                                                                                                                                                                                                                                            "2' methoxyethyl (2' MoE) nucleotides"
                                                                                                                                                Mouse caspase 8 mkNA antisense compound 1S1S 107757.
                                                                                                                                                                                                                                                                                    "Phosphorothioate backbone"
                                                                                                                                                                                                                                   Location/Qualitiers
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THEK
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                                                                            AAbl2479 standard; DNA; 20 BF
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L. S.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10 - 301, 2001.
                                                                                                                                                                                                                    Synthetic
                                                                                                  AAD12479;
                                                        RESULT 14
                                                                   AAD12479
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2×33355885×3

4 G'AGITC'ITC'IC'GTCG 20

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                                                           The invention relates to antisense compounds which inhibit the expression of human caspase 8. The antisense compound is useful for diagnosing and freating diseases associated with the expression of caspase 8 and for prophylaxis e.g. to prevent or delay infection, inflammation or tumour formation, and as a research reagent. The present sequence is an antisense compound targetted to mouse caspase 8 mRNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           POR primers AAV70932 43 are used for external RL POR amplification of a MAGE 4 tumour specific antiqen quue. The primers are used for detecting disseminated tumour cells which indicate a careerous condition, such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a condition related to prostate cancer, non-small or small lung cancer, sarchuma, maliquant melanoma, breast cancer or colorectal cancer. The PTR products of this detection can be used to prepure a tumour adjuvant.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 POR primer used to amplity MAGE-4 mkNA in a nested RT-PCR reaction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           hybridise to nucleic acid complementary to the mKNA of a gene
encoding a MAGE tumour-specific antigen, used for tumour adjuvant
                                                                                                                                                                                                                                                                                                                                                                                                                                             :
O
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New MAGE-derived primers detecting disseminated tumour cells
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MAGE tumour-specific antiqen gene; disseminated tumour cell; prostate cancer; non-small or small lung cancer; sarcoma; malinant melanoma; breast cancer; colorectal cancer;
                                                                                                                                                                                                                                                                                                                                                                       Score 13.8; DB 22; Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                         ~
                                                                                                                                                                                                                                                                                                                                                                                                      Pred, No. 40.03;
); Mismatches
                                                                                                                                                                                                                                                                                                        Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 21 BP; 7 A; 6 C; 5 G; 3 T; 0 offler;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tumosa adjuvant vaccine; PCR primer; ss.
Claim 1; Column 47-48; Supp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim I: Page 46; 65pp; English,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAV/11932 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                          69.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98W:-EP02081
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97EP-0106026.
                                                                                                                                                                                                                                                                                                                                                                                                          88.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04 FEB-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 GCAGFF01F0F000TGG 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 GPAGITCITCACCCIAG 20
                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 88,2
Matches 15, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kuter P. Zippelius A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (MICROMET GMBH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WP1: 1398-594590/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          119 - APR - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rone sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 - AFR 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22- -1-1998.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Synthesis 10.
                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAV / 1119 12;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vaccines
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAV70932/
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bork primers AAV20942.43 are used for internal RI-POR amplification of a MANE-1 timon specific antiden gene. The primers are used for detecting disseminated tumon review which indicate a cancerous condition, such as a condition related to prostate cancer, near-small on small line cancer, sareoms, malitariant melanoms, breast cancer or colorectal cancer. The POR products of this detection can be used to prepare a fument adjuvant
                                                                                                                                                                                      PCR primer used to amplify MAGE 4 mRNA in a nested RT-PCR reaction.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New MANE-derized primers detecting disseminated tumour cells -
hybridise to nucleic acid complementary to the mKNA or a gene
encoding a MAGE tumour-specific autique, used for tamour adjuvant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                halophila PCR primer-5 for SDMT dene expression in E. coli.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           69.0%; Score 14.8; DB 19; Length 21; BB.2%; Pred. No. 3e-64; Fig. 0; Mismatches 2; Indels :
                                                                                                                                                                                                                    MAGE tumour specific antiqen gene; disseminated tumour cell;
                                                                                                                                                                                                                                prostate cancer; non-small or small ling cancer; sarcoma; malignant metanoma; breast cancer; colorectal cancer; timout adjuvant vaccine; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 HP; 7 A; 6 C; 5 G; 3 L; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Main I: Page 46; 65pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA250970 standard; DNA; 30 BP
                                                                                          AAV70942 standard; DNA; 21 RP
                                                                                                                                                                                                                                                                                                                                                                                                           98WO-EP02081.
                                                                                                                                                                                                                                                                                                                                                                                                                                        97EP-0106026
                                                                                                                                                         (Tirst outry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05 JUN-2000 (first enfry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 30A3110110110101003 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 88.2
Matches 15, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P GPAGATCH CPPTING 8
P GAGAPUTGLOTTGG 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ruter F. Zippelius A:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (MICK-) MICHOMET GMBE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WP1: 1998-194590/50.
                                                                                                                                                                                                                                                                                                                                                                                                                                        11-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                         09-APR-1998;
                                                                                                                                                       04 FEB-1999
                                                                                                                                                                                                                                                                                                                Rotto sapiens
                                                                                                                                                                                                                                                                                                                                            WOOB46788 AL
                                                                                                                                                                                                                                                                                                                                                                          22-001-1998.
                                                                                                                                                                                                                                                                                                Synthestic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAZ See 77 U.
                                                                                                                        AAV70942;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAZ50970/C
                                                                          AAV7094270
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                                                             RESULT 16
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Indels

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Score 14.8; DB 19; Length 21;

Pred. No. 3e+04;

Mismatches

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69.0**%**; 88.2**%**;

Ouery Match Hest Local Similarity 88.2% Traches 15; Conservative

us-09-900-115-5.max.rng

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WP1; 2002 442040/47.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local Similarity
                                                                                                                                                (SIAM ) DSM NV.
     EP1184460 AL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              W09742987 AL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-MAR 1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-MAR 1997;
                                        06-MAR-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12 SEP 1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAT 94679;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 19
AA1946797c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ÷
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence is a PCR primer used for expressing Actinopolyspora halophila sarcosine-dimethylalycine methyltransferase (SIMT) gene in E. coli. The SIMI gene which was used to DNA sequencing, is used as a template for the PCR reaction. This primer hybridises to position 1048-1068 of SDMT gene. Positive E. coli clones were cultivated and used in cnyame activity assay. Expression vectors comprising the coding region from betaine opened on he used to increase intracellular dimethylapycine content. The polymucleotide can be used to increase pathogenes or induce pathogenesis related proteins in plants. Transaemic organisms can be used as an animal tred indrodient. The polymucleotide can be used to enhance pH tolerance and improve viability of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Plant antibungal; tungal xylamase; thermostability; xylan; cellulose; alcoholie liquid; beer; wine; truit juice; vegetable juice; aqriculture; recycling; paper; toodstuff; coffee; plant oil; starch; plant pulp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 organisms when subjected to environmental stress. This can decrease inclusion body formation when used in conjunction with polynucleotides
                                                                                                                                                                                                                                                                                                                                                                                            Now methyltransferases, useful for e.g. producing transachic plants with increased stress folerance, pathogen resistance or nutritional value as animal teed or for improving the viability of microoragnisms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0) Gaps
PCR primer: sarrosine-dimethylalycine methyllransferase; SDMT;
betaline operon; dimethylalycine content; abiolic stress; tolerance;
salt; treezing; cold; drought stress; pathogenesis related protein;
animal leed; pH tolerance; environmental stress;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Lementh 40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Inde [s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      68.0%; Score 13.6; PR-ZI;
80.0%; Pred, No. 3.9co03;
live 0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 30 BP; 8 A; 9 C; 10 G; 3 T; 0 office;
                                                                                                                                                                                                                                                                                                                         Kerrovno J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 10; Page 54; 176pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Asperdillus niger PCR primer #67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      encoding a heterologous protein.
                                                                                                                                                                                                                                                                                                                        Reinikainen I. Nyyssoelae A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABK71876 standard; DNA; 21 BP.
                                                                        inclusion body tormation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 GANGGAGTECT FORCIGING 20
                                                                                                                                                                                                                  99Wo EPO6037.
                                                                                                                                                                                                                                                     98US 0137434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 GOGIAD/TCTT/CPATGE 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            40 JUL-2002 (Lirst entry)
                                                                                                         Actinopolyspora halophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                in the tood industry
                                                                                                                                                                                                                                                                                    (CULL) CULTOR CORP.
                                                                                                                                                                                                                                                                                                                                                           WPT; Z000 224686/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Aspergillus niger.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR: primer; ss.
                                                                                                                                          Weizenell142 AZ.
                                                                                                                                                                                                              18 AUG-1999;
                                                                                                                                                                                                                                                 20 AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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The present invention relates to a new protein comprising a function of sylmasse modified to invente the modified from its attempts ability. The modified from its attempts of section 160 to 100 for the invention is used in degrading xylan in cellulose, fronting plant material, improving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention provides a novel protein comprising meditied xylanase that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                is up to 10 times or more stable than its unmodified counterparts, and yet retains a pH optimum that is acidic. The prosent nucleic acid
                                                                                                                                                                                                                                                                           Protein for, e.g. treating plant material, comprises fundal xylamase modified at exposed seribe residues or within positions 50 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 filterability and/or reducing viscosity of xylar containing liquids, improving filterability or clatifying algobalic liquids (e.g. beer, wor fruit or vegetable juices, hydrolysing agricultural residues, in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              recycling materials (e.g. containing paper) in papermaking, for
thickening toodstutts, and/or extracting desirable materials (e.g.
coffee, plant oil, starch), processing plant pulp, juice or extract.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence represents one of a collection (AHK71810 AHK71908) of
Asperaillus niger PCK primers that were used in the methods of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Iwasaki A, Stiernbolm NBJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  67.0%; Score 13.4; DB 24; Jacqth 21; 93.3%; Pred. No. 4.7e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         to stimulatory molecule B7 1 gene amplifying 3′ primer B7 L
                                                                                                                                                                    Deri am
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               stimulatory molecules antiqen; B7 I; treatment; tumour;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tide 18
                                                                                                                                                                  Menke IIII,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      microbial infection; vector; RT PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21 BP; 6 A; 4 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                  Van Der Laan JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Barber BH, Berinstein NL, Chan AK,
                                                                                                                                                                                                                                                                                                                                                        Disclosure: Page 54; 74pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention to modify the xylanases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT94679 Standard; DNA; 33 BP.
29-AUG-2000; 2000EP-0307374.
                                                   29-AUG-2000; 2000EF 0307374.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           97WD CA00162.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                  Van ben Bombergh JEIW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HIGK ) UNIV TORONIO,
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Wed Mar 19 09:05:29 2003

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nucleotide vector containing a sequence encoding at least one antiqen and a sequence encoding at least one co-stimulatory molecule and a promoter coupled to both the encoding sequences. Compositions containing this movel vector and a second vector can be used for expressing at least one cytokine. The movel nucleotide vector optionally combined with the second vector are useful as vaccines to protect against microbial intertion and to treat intertions or neoplastic disease. The vaccines particularly induce a cytotoxic T cell (CTL) response. Simultaneous expression of a
                                                                                                                                                                                                                                                                                                                                                        co-stimulatory molecule improves the immune response, particularly where the antiden is only weakly immunogenic and the effect is further enhanced by cytokines, this allows a reduction in the dose of DNA required. The
                                                                                                                                                                  This primer is used for the reverse transcriptase PTK amplification of a co-stimulatory molecule B7-1. This is used in the construction of a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Plant antitungal; fungal xylanase; thermostability; xylan; cellulose; alcoholic iignid; beer; wine; fruit juice; vegetable juice; agriculture; recycling; paper; foodstuff; coffee; plant oil; starch; plant pulp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a new profein comprising a tungal xylingse modified to increase thermostability. The modification is at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0: Gaps
                                                                       used in vaccine for prevention or treatment of microbial
                                                     Vector containing sequences encoding antique and co-stimulatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified at exposed serine residues or within positions 90-160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 13.4; DB-18; Length 33;
Pred. No. 4.50003;
0; Mismatches 1; Indels 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 43 BP: 15 A; 6 C; 9 G; 3 E; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                  vectors are easy to administer and assemble.
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                                                                                                                              Example 2: Page 20: 49pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABK71874 standard; DNA; 34 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           67.0%;
93.3%;
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               WPI; 1997-470548/43.
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used in deriading xylan in cellulose, treating plant material, improving inflictability and/or reducing viscosity of xylan-containing liquids, improving rillerability or claritying alcoholic liquids (e.g. wine) or truit or vegetable juices, hydrolysing agricultural residues, in recycling materials (e.g. containing paper) in papermaking, for chirkening tensitudes, and/or extracting desirable materials (e.g. containing plant) pulp, luice or extracting plant pulp, luice or extracting the insention provides a nevel protein comprising modified xylandse that
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literability and/or reducing viscosity of xylan containing iguids,
improving litterability or claritying alcoholic liquids (e.g. beer, wine)
or full or vegetable juices, hydrolysing agricultural residues, in
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The invention provides a novel protein comprising modified xylandse that
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      is up to 10 times or more stable than its unmodified counterparts, and yet retains a pH optimum that is acidic. The present nucleic acid sequence represents one of a collection (ABK71810-ABK71908) of Asperqillus niger PCK primers that were used in the methods of the
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thickening toodstufts, and/or extracting desirable materials (e.g.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention to modify the xylanases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        coffee, plant oil, starch), processing plant pulp, juice or extract. The invention provides a novel protein comprising modified xylanase that
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is up to 10 times or more stable than its unmodified counterparts, yet retains a pH optimum that is acidic. The present nucleic acid sequence represents one of a collection (ABKZ1810-ABKZ1908) of
                                                             Aspergillus niger PCR primers that were used in the methods of the invention to modify the xylanases.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aspergillus niger PCR primers that were used in the methods of the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence represents one of a collection (ABK71810-ABK71908) of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Daran JG;
                                                                                                                                                                  Length 36;
                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Menke HH,
                                                                                                                                                                                                        --
                                                                                                                                                                67.0%; Score 13.4; DB 24;
                                                                                                                                                                                   50+03;
                                                                                                                        Sequence 36 BP; 8 A; 12 C; 8 G; 6 T; 2 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 39 8P; 8 A; 12 C; 9 G; 8 1; 2 other;
                                                                                                                                                                                     Pred. No. 5e+0
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Vati Der Laan JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure: Page 54; 74pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  invention to modity the xylandses.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aspergillus niger PCR primer #66.
                                                                                                                                                                                                                                                                                                                                                                                           ABK71875 standard; DNA; 39 BP.
                                                                                                                                                                                       94.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-AUG-2000; 2000EP-0307374.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29 AUG 2000; 2000EP: 0307374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         40-JUL-2002 (first entry)
                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                   3 GCAGTACTFCTCCGT 17
                                                                                                                                                                                                                                                4 GOAGITOTICITOTOR 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Van Den Hombergh JPEW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2002 442040/47.
                                                                                                                                                                                       Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Asperdillus nider.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (STAM ) DSM NV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EP1184460 A1.
                                                                                                                                                                                                          14;
                                                                                                                                                                                                                                                                                                                                                                                                                                   ABK71875;
                                                                                                                                                                  Query Match
                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                 RESULT 22
                                                                                                                                                                                                                                                                                                                                                                        ABK 71875
    55555×3
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67.0%; Score 13.4; DB 24; Length 39;

Ouerly Match

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to a hailpin or hammerhead ribozyme, designed to cleave RNA encoding a cyclin or cell cycle dependent kinase other than cell cycle dependent kinases CDKL, PCNA and Cyclin BL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New haitpin and hammerhead ribozyme for inhibiting resterbsis, cleaves RNA encoding a cyclin or cell-cycle dependent kinase other than CDKL, PCNA and Cyclin Ed
                             Settle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sideo zo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Representative examples of ribozyme recognition sites are given in AAA82415 to AAA86787. The ribozyme of the invention is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAAR2415 to AAAR6787. The ribozyme of the invention is useful for inhibiting restenosis by introduction of the ribozyme into cells. The ribozyme is resistant to endonucleuse activity and hence is
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 13.2; DB 21; Length 19;
Prod. No. 5.7cc03;
); Mismatches 3; Indels (
                             Indols
                                                                                                                                                                                                                                                                                                                                                                                                                                   Ribozyme; haitpin; hammerbead; gene therapy; vasotropie;
                           <u>.</u>,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cyclin F ribozyme binding site SEQ 10 No;2424.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Robbins JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 19 BP: 5 A: 6 C; 3 G; 5 T; 0 other;
                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                     Cyclin F ribozyme binding site #106.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page 83; 109pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      efficient in restenosis treatment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tritz R, Welch PJ, Barber JR,
                           :<u>`</u>
                                                                                                                                                                                                                                          AAA84838 standard; DNA; 19 BF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAH60000 standard; DNA; 19 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               66.0%;
84.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99WO US28772.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  980S-0110954.
                                                                                                                                                                                                                                                                                                                                      04 DBC 2000 (Hirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 CAGCAGTTCTTCTCTGTG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 CANCAAGLOTTICTICCOTG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TO SEP 2001 (Tirst entry)
                        14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15; Conservative
                                                                                                3 GCAGTACTTCTCCGT 17
                                                                       4 GCAGTTCTTFCTCCGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (IMMU-) IMMUSOL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WP1; 2000 412314/35.
Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     est Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                               restenosis; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        W0200032765 AZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04 - DEC - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08 JUN 2000.
                                                                                                                                                                                                                                                                                         AAA848 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAH60000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cuery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                           RESULT 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KESULT 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CXEXEX
XEXEX
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Human biallelie marker downstream amplification primer SEQ ID Ne:16482.

quicomic map; haplotype; phenotype; polymorphic base; qenotyping; haplotyping; hybridisation; identification; characterisation; amplification; single nucleotide polymorphism; SNP; PCR primer; Human genome; biallelic marker; high density disequilibrium map;

diaqnosis; ss Homo sapiens. W09954500-AZ. 99WO-1B00822 980S-0082614 980S-0109732.

21-APR-1994; 21 APR-1998; 24-NOV 1998;

28-00TF 1999.

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                              recognition site; target; ribozyme binding site; eye disease; vulnerary; proliferalive disease; skin disease; psoriasis; diabetic retinopathy; cytokine; inflammation; cell-eyele dependent kinase; cyclin; MMP; matrix metalloproteinase; quowth factor; reductase; scarring; cytostatic; antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide; antisickling; ophthalmological; keratolytic; gene therapy; viral wart; atopic dermatitis; actining keratosis; squamous cell carcinoma; basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar; sickle cell retinopathy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          dependent kinase, growth factor or a reductase, or administering a nursher acid molecule (II) comprished a promoter operably linked to a nursher acid segment encoding (I). (I) can have antipsoriatic, dermatological, eytostatic, antiseborrheic, antidiabetic, antisickling, ophthalmological, vulnerary, Keratolytic and virucide activities, and citeares KNA encoding cytokine involved in inflammation. (I) can be used in a new thorapy. (I) and (II) are useful for treating proliferative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             retinopathy, virreoretinopathy, sickle celi retinopathy, retinopathy or premartify and retinal detachment, and for treating and preventing scurring such as Reloid, adhesion and hypertrophic or hypertrophic burn scur. AAH57577 to AAH62099 represent sequences used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Squamous of basal cell carcinoma and viral or seborrheic wart. They can also be used for treating proliferative eye diseases such as diabetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         skin diseases such as psoriasis, atopic dermatitis, actinic keratosis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tibosymes that cleave RNA encoding cytokines involved in inflammation, matrix metalloproteinases, growth factors and cell-cycle dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention describes a method for treating a proliferative skin or eye disease and scarring. He method involves administering a rithogome (1) which cleaves RMA encoding a cytokine involved in intiammation, matrix metalloproteinase (MMP), cyclin, cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            freating proliferative skin or eye diseases and scarring, using
Homon: ribozyme therapy: halipin ribozyme; hammerhead ribozyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
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83.3%; Pred. No. 5.7e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 1: Page 248; 408pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA276126 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26 orl-2000; 2000Wo-US29500.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26 mil 1999; 990S-0161532.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 CAGGAGITCTFCTGGGTG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 CAACAAGICITCIOCGIG 19
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Robbins JM, Tritz R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (IMMU-) IMMUSOL INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wo200130362-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03 MAY - 2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA276136
1D AA23
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lo SEP-2001 (first entry)

AA275.126;

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Novel biallotic markers used to construct a high density disequilibrium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for disease states. Compositions and methods of the invention can also be useful for the identification of the targets for the development of pharmacoutical agents and diagnostic methods, as well as the characterisation of the differential efficacious responses to and side effects from pharmacoutical agents acting on a disease as well as other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAZ65654 to AAZ69578 represent human biallelic markers from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    incention, which contain a polymorphic base at position 24 of their nucleotide sequences. AAZ69579 to AAZ77440 represent amplification primers to the biallelic markers. The biallelic markers of the invention have a wartety of uses; the biallelic markers on the mapping of the man genome, and in complex association studies and haplotyping studies which are useful in determining the genetic basis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N.B. The SEQ ID Nos 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297, and 3367, are not accually given a sequence in the Sequence Listina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   :`
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            66.0%) Score 13.2; DB 21; Length 21;
83.3%; Pred, No. 5.8e+03;
ive 0; Mismatches 3; Indels o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 21 BP; 2 A; 5 C; 5 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Search completed: March 14, 2004, 11:02:07
Job time : 128.82 sees
                                                                                                                                                                                                                                                                                                                                                                                       Cohen D. Blumenteld M. Chumakov I;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 9: Page 2465; 2745pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     from the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  * AdmAdlicition outlide zu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 AGIAGLETICTICCIGG 18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    map of the human genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                     (GESI ) GENSEI
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denote version 5.1.4 p5_4578 copyright (c) 1994 - 2004 compuser Ltd.
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OM nucleic , nucleic search, using sw model

March 18, 2003, 10:54:46 ; Search time 28.1967 Seconds (Without alignments) 217.527 Million cell updates/sec Rum on:

Title: Perfect score:

US-09-900-115-5 20 1 qeaqeaqttetteteqtqq 20 Sequence:

IDENTIFY_NUC Gapop 10.0 , Gapext 1.0 Scoting table:

441362 seqs, 153338381 residnes Sear ched:

603838 Total number of hits satistying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 50

Post processing: Minimum Match 0% Maximum Match 100% Listing first 1000 summaries

Database :

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SUMMARIES

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-	15.8	79.0	24	4	US-09-186-170-11	Sequence 11, Appl
2	15.8	79.0	24	₹	US-09-562-868-11	11,
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7	15.8	79.0	**	₹.	US-09-186-i70-14	14,
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<i>3</i> *	15.8	79.0	36	4	US-09-186-170-10	Sequence 10, App
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14	14.2	0.49	48	_	US-08-471 791-35	
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54	12.8	64.0	~	4	US-09-186-170-18	Sequence 18, Appl
57	12.8	64.0	~	4	US-09-562-868-18	Sequence 18, App
97	æ.∵ ∵: !	64.0	47	-7	US-1 9-641-638-975	sequence 975, App
7.7	12.6	64.0	25	~	US-08-692-787-39	Sequence 39, Appl

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Sequence 5, Appl. Sequence 14, Appl. Sequence 13, Appl. Sequence 14, Appl. Sequence 17, Appl. Sequence 17, Appl. Sequence 22, Appl. Sequence 102, Appl. Sequence 103, Appl. Sequence 103, Appl. Sequence 104, Appl. Sequence 105, Appl. Sequence 12, Appl. Sequence 13, Appl. Sequence 14, Appl. Sequence 14, Appl. Sequence 2, Appl. Se	Sequence 50, Application 84, Application 84, Application 86, 518544 Fatent No. 518544 Fatent No. 518544 Fatent No. 518544 Sequence 14, Application 12,
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APPLICANT: Rojas, Mauricio
THILE OF INVENTION: Sequence and Method for Genetic Engineering of
Fatout No. 624858
THILE OF INVENTION: Proteins with Cell Membrane Translocating Activity*
FILE REPERENCE: VINAGA
CHRENT APPLICATION NUMBER: US/09/186,170
                                                                                                                                                                                                                                                                                                              Sequence 24,
Sequence 26,
                                                                                                                                                                                                                                                                                                                                                     Sequence 77,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: Description of Artificial Sequence: Nucleotide OTHER INFORMATION: Sequence encoding peptide which transports OTHER INFORMATION: proteins through the cell membrane into the cell
                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
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89.5%; Pred. No. 61;
ive 0; Mismarches 2; Indels
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HITE: Permeability"
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EARLIER APPLICATION NUMBER: 60/080,083
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EARLIER FILLING DATE: 1998-03-31
NUMBER OF SEQ ID NOS: 18
SOFTWARE: Patentin Vel. 2.0
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Best Local Similarity 89.5%
Matches 12; Conservative
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APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RELEVANT RESTROTES: 1 to 12
      PUBLICATION INFORMATION:
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                                                                              SEC ID NO 11
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APPLICANT: Unit Yao Zhone
APPLICANT: Domahar, John P.
APPLICANT: En. Zhonejia
APPLICANT: En. Zhonejia
TITE OF INVENTION: "Sequence and Method for Genetic Engineering of
Patent No. 64 45600
TITE OF INVENTION: Proteins with Cell Membrane Translocating Artivity"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  THILE OF INVENTION: Proteins with Cell Membrane Transferating Activity" FILE REFERENCE: VIOUST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (HDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Description of Artificial Sequence: Nucleatide ofHER INFORMATION: sequence encoding peptide which transports OTHER INFORMATION: proteins through the cell membrane into the cell
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APPLICANI: Rojas, Mauricto
APPLICANI: Tan, Zhenqjia
TITLE OF INVENTION: "Sequence and Method for Genetic Englinesting of
Patent No. 6248558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        =
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TITLE: Permeability"
                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/562,868 CURRENT FILLING DATE: 2000-05-01
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PRIOR FILLIN LABLE 1998 045-41
PRIOR PLICATION NUBBER: 09/186,170
PRIOR FILLIN; DATE: 1998 11-04
                                                  ; Sequence 11, Application 08/09562868; Fateut No. 6432680; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; Sequence 12, Application 08/09186120
; Patent No. 624858
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NUMHER OF SEQ ID NOS: 18
SOFTWARE: Patentin Vet. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
ORGANISM: Artificial Sequence
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US-09-562-868-11
RESULT 2
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TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
FILE REFERENCE: 22000.009702
CURRENT APPLICATION UNMERS: 12000.05-01
CURRENT FILING DATE: 2000-05-01
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                                         OTHER INFORMATION: Description of Artificial Sequence: Nucleotide OTHER INFORMATION: Sequence encoding peptide which transports OTHER INFORMATION: proteins through the cell membrane into the cell public. The INFORMATION: The cell membrane into the cell ITILE: "Genetic Engineering of Proteins with Cell Membrane THILE: Permeability"
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APPLICANT: Pojas, Mauricio
APPLICANT: Tan, Zhongjia
TILLE OF INVENTION: "Sequence and Method for Genetic Engineering of
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Rest Local Similarity 89.5%; Pred. No. 62;
Matches 17; Conservative 0; Mismatches 2; Indels
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PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 09/186,170
PRIOR FILING DATE: 1998-11-04
NUMBER OF SEU ID NOS: 18
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18.09.562.868-12
18.09.562.868-12, Application US/09562868
1 Patent No. 6432680
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ORGANISM: Artificial Sequence
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VOLUME: 16
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APPLICANT: Lin, Yao-Zhong
APPLICANT: Donahue, John P.
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SEQ 10 NO 12
LENGIH: 27
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PAGES: 470-475
DATE: 1998-04-01
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DATE: 1998-04-01
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IIIIE of INVENITOR: Profeins with Cell Membrane Hamsloratina Activity"
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TITLE OF INVENILAR Proteins with Cell Membrane Translocating Activity"
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CURRENT PELLING TABLER: US/U9/186,170
CURRENT FILING TATE: 1998 11-04
EARLIER APPLICATION NUMBER: 60/080,083
EARLIER FILING TATE: 1998-03-31
NUMBER OF SEQ. ID NOS: 18
SOFUMARE: PARENTH VOE: 2.0
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PRIOR FILING DATE: 1995-11-04
NUMBER OF SEQ ID NOS: 18
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                                              Sequence 13, Application US/09186170 Patent No. 6248588 GENERAL INFORMATION:
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APPLICANI: Bonahue, John P.
APPLICANI: Rojas, Mauticio
APPLICANI: Ian, Zhondjia
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SEQ ID NO 13
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RELEVANT RESIDUES: 1 TO 12
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Matches 17; Conservative
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APPLICANI: Donahne, John P.
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APPLICANT: Tan. Zhong)ia
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PAGES: 370-475
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RESULT 5
US-09-186-170-14
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                                         OTHER INFORMATION: Description of Artificial Sequence: Nucleotide OTHER INFORMATION: Sequence encoding peptide which transports OTHER INFORMATION: proteins through the cell membrane into the cell
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APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricio
APPLICANT: Tan, Zhongjia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
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89.5%; Pred. No. 63;
TVe 0; Mismatches 2; Indels
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                                                                                                                                       AUTHORS: Rojas, M. et al.
11TLE: "Genetic Engineering of Proteins with Cell Membrane
11TLE: Permeability"
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TITLE: Permeability"
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CURRENT FILING DATE: 1998-11-04
EARLIER APPLICATION NUMBER: 60/080,083
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NUMBER OF SEQ ID NOS: 18
ORGANISM: Artificial Sequence
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TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
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APPLICANT: Bolas, Manifelo
APPLICANT: Ban, Zhonejia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
Patent No. 6248558
TITLE OF INVENTION: Profeins with Cell Membrane Translocating Activity"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: bescription of Artificial Sequence: Nucleotide OTHER INFORMATION: sequence encoding peptide which transports OTHER INFORMATION: proteins through the cell membrane into the cell
                                                                                                                                                                                           APPLICANT: Tan, Zhonajia
TITLE OF INVENTION: "Sequence and Method for Genetic Engineering of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial Sequence: Nucleotide
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TITLE: "Genetic Engineering of Proteius with Cell Membrane
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                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/562,868 CURRENT FILLING DATE: 2000-05-01
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EARLIER APPLICATION NUMBER: 60/000,083
                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/080,083
PRIOR FILLING DATE: 1998-03-31
                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION NUMBER: 09/186,170
PRIOR FILLING DATE: 1998-11-04
                            Sequence 14, Application US/09%62868
Patent No. 64 $2680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : Sequence 10, Application 0S/09186170
: Patent No. 6248558
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89,58;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL: Nature Biotechnology
VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                       FILE REFERENCE: 22000,009702
                                                                                                                                     APPLICANT: Donahue, John P. APPLICANT: Rojas, Manricto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ouery Match
Best Local Similarity 89.5%
Matches 17; Conservalive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Ver. 2.0
SEQ ID No 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PUBLICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE: Permeability"
                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                 Patent No. 6432680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ISSUE: April
PAGES: 370-375
DATE: 1998-04-01
US 09 562 868 14
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FILE REPERENCE: 2000.009702

CURRENT PRILING DATE: 2000.009703

CURRENT FILING DATE: 2000.0093

PRICE RELEGION NUMBER: 08/09/562,868

PRICE REPERENCE: 2000.0093

PRICE REPERENCE: 2000.0093

PRICE REPERENCE: 2000.0093

PRICE REPERENCE: 09/186,170

PRICE APPLICATION NUMBER: 09/186,170

PRICE APPLICATION NUMBER: 09/186,170

PRICE APPLICATION NUMBER: 1998-11-04

NUMBER OF SEQ ID NOS: 18

SOFTWARE: PATENTIN VOICE: 18
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OTHER INFORMATION: Sequence encoding peptide which transports OTHER INFORMATION: proteins through the cell membrane into the cell
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Prod. No. 64;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                             DB 4; Length 36;
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                                                                   "Genetic Engineering of Proteins with Gell Membrane
                                                                                                                                                                                                                                                                                                                                                             2; Indels
                                                                                                                                                                                                                                                                                                           Score 15.8; DB
Pred. No. 64;
0; Mismatches
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Patent No. 6432680
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89.58;
                                                                                                                  JOURNAL: Nature Biotechnology
VOLUME: 16
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APPLICANT: Donahue, John P.
                                                                                                                                                          ISSUE: April
PACES: 470-475
DATE: 1998-04-01
RELEVANT RESTDUES: 1 TO 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Rojas, Mauricio
                                                                                                                                                                                                                                                                                                                                                        Matches 17; Conservative
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                                               PUBLICATION INFORMATION:
                                                                   IIILE: "Genetic Engir
IIILE: Permeability"
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PAGES: 470:475
DATE: 1998-04-01
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LENGIH: 46
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US-09-487 445 165

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Gaps
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                                                                                                 APPLICANT: Lex M. Comsett
THILE OF INVENTION: AND SENSE MODIFALTON OF CASPASE R EXPRESSION
FILE REPERENT: KLS-0107
CURRENT APPLICATION NUMBER: US/09/487,445
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: BEUDEKER, ROBERL F.
APPLICANT: KIES, ATIE K.
FILLE OF INVENITOR, PHOSPHOLIPASES IN ANIMAL FEED
FILLE REFERENCE: 2464522007400
CURRENT APPLICATION NUMBER: US/08/648,506
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FARLIER APPLICATION NUMBER: EPO 95201266.4
EARLIER FILTING TGATE: 1995-05-15
EARLIER APPLICATION NUMBER: EPO 95202442.0
EARLIER APPLICATION NUMBER: EPO 95202442.0
EARLIER FILTING TGATE: 1995-08-08
ENUMBER: OF SEQ 1D NUS: 4
SOFTWARE: PATCHILL VOT: 2.0
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PRIOR APPLICATION NUMBER: 08748,506
PRIOR FILLING DATE: 1996-05-15
PRIOR APPLICATION NUMBER: EPO 95202442.0
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CURRENT APPLICATION NUMBER: US/09/277, 355
Sequence 155 Application 08/09487445
Patent No. accessor
GENERAL INFEMALION:
APPLICANT: Bond Chana
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08-08-648-50s 2
sequence 2. Application US/08648506
Patent No. 6017840
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                                                                                                                                                                                                        CURRENT FILLING DATE: 2000-01-19
                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Artificial Sequence
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Matches 15, Conservative
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SEC ID NO 165
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
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US-U8-648-506-2
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LENGIH: 39
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RESULT 15
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                                                                                                                                                                                                        3: Indels
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                                                                                                                                                                                                        0; Mismatches
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14 - MAR-1991
iN: 4-85
ON: 2
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FELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08/471,791
PTLAG DATE: 6-UDNE-95
CLASSIPICATION: 4-85
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: 07/567, 374 FILLING DATE: 14-AUG-1990 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 07/762,762
FILING DATE: 18 SEPT-1991
CLASSIFICATION: 4.45
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 07/615,784 FILLING DATE: 14-NOV-1990 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                        Sequence 35, Application US/08471791
Patent No., 5723595
GENERAL INFORMATION:
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APPLICANT: Knauf, Vic C
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 1995-08-08
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(916) 753-1510
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: Calqene, Inc.
STREET: 1920 Fifth Street
                                    Patentin Ver. 2.0
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                        15; Conservative
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                                                                                                                                                                  Ouery Match
Best Local Similarity
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PRIOR FILING DATE: 1
NUMBER OF SEQ ID NOS:
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                                                                                                             ORGANISM: mammalian
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                                                                                                                               US 09 277 - 355 2
                                                      SEC 1D NO 2
LENGTH: 49
                                                                                            TYPE: DNA
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                                      SOFTWARE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Plant Desaturases Compositions and Uses
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                        Score 13.2; DB 1; Length 48; Pred. No. 1.1e+03; 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     66.0%; Score 14.2; DB 5; Longth 48;
83.3%; Pred, No. 1.1e+04;
Uye 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: Diskette, 3.50 inch, 1.0 MB storage
COMPUTER: Apple Macintosh
                                                                                        Topolowy: linear
MolgCULETYPE: other nucleic acid
DESCRIPTION: synthetic oligomacleotide
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DESCRIPTION: synthetic oligometeolide
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FIGING DATE: 19910314
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SOFTWARE: MicrosoftWord 4.0
CURRENE APPLICATION DAIA:
                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 35, Application PC/FUS9101746 GENERAL INFORMATION:
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APPLICANT: Khaul, Vic.C
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(916) 753-1510
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APPLICATION NUMBER: 07/45
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                    1 GCAGCAGTTCTFFCTGGT 18
                                                                                                                                                                                                                                                                                      27 GCTGCACT CTPCTTCTT 44
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                                                                                                                                                                                                            Hest Local Similarity 83.89
Matches 15; Conservative
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                SEQUENCE CHARACTERISTICS:
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INFORMATION FOR SEQ ID NO:
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                                  LENGTH: 48 base pairs
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FYPE: NUCLEIC ACID
                                                      TYPE: nucleic acid
STRANDEDNESS: single
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RESULT 18
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APPLIVANT: Yamameto, Keiji
APPLIVANT: Yamameto, Keiji
APPLIVANT: Reda, Mashiro
APPLIVANT: Sakaqami, Mashiro
APPLIVANT: Taniquehi, Makoto
TITLE OF INVENTION: PROTEIN MODIFICATION METHOD
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APPLITANT: Sakadami, Masahiro
APPLITANT: Tanjauchi, Makoto
TILLE OF INVENTON: PROTEIN MODIFICATION METHOD
FILE REFERENCE: 110-511
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PRIOR FILING DATE: 1995-02-27
PRIOR APPLICATION NUMBER: JP 198187/94
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; Sequence 42, Application US/08505250
; Patent No. 6322996
                                                                                                                                                 Sequence 32, Application US/08505250 Patent No. 6183983
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NUMBER OF SEC ID NOS: 54
SCHWARE: Patentin Vor. 2.0
SEC ID NO 42
1 GCAGCASTICTICIOGI 18
                    22 GCTGCACHTCTTCTFCTF 44
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Best Local Similarity 100.
Matches 13; Conservative
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Suzuki, Kokichi
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APPLICANT: Yamamoto, Ke
APPLICANT: Suzuki, Koki
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65,0%; Score 1%; D8-4; Length 48; [00.0%; Pred. No. 1.30+03; ive - 0; Mismatches - 0; Indels;
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APPLICANT: Suzuki, Kokichi
APPLICANT: Ikeda, Masahiro
APPLICANI: Sakadami, Masahiro
APPLICANI: Sakadami, Makato
ITILE OF INVENTION: PROTEIN MODIFICALION METHOD
FILE OF INVENTION: PROTEIN MODIFICALION METHOD
CURKENI FILINITALION NUMBER: US/08/505,250
CURKENI FILINITALION NUMBER: PUT/JP95/00298
EARLIER APPLICATION NUMBER: PT/JP95/00298
EARLIER APPLICATION NUMBER: 1949
EARLIER FILING DATE: 1945-02-27
EARLIER FILING DATE: 1940-08-23
SOFUWARE OF SEU ID NOS: 53
SOFUWARE PALENTIN VOL: 2.0
SEU ID NO: 33
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APPLICANT: Yamamoto, Keiji
APPLICANT: Sakadami, Masahiro
APPLICANT: Sakadami, Masahiro
APPLICANT: Sakadami, Masahiro
APPLICANT: Baniquechi, Masahiro
APPLICANT: Perigni Masahiro
APPLICANT: Perigni Masahiro
APPLICANT: Sakadami, Masahiro
APPLICANT: Sakadami, Masahiro
APPLICANT: Perigni Masahiro
CURRENT: APPLICATION NUMBER: US/08/505,250
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EARLIER FILING FAIE: 1995-02-27
EARLIER APPLICATION NUMBER: JP 198187/94
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; Sequence 52, Application US/08505250
; Paton! No. 6183983
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; Patent No. 6185983
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NUMBER OF SEQ ID NOS: 53
SOFTWARE: Patentin Vor. 2.0
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Matches 13, Conservative
                       Local Similarity 100.
res 13, Conservative
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                                                                                                           1 STANDAMILICITIES 14
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                                                                                                                                        ZI GCAGCAGTICTTC 33
                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Sato, Haruya
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                                                         offHER INPORMATION: Description of Artificial Sequence; synthetic OTHER INFORMATION: DNA Tragment
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                                                                                                                                              65.0%; Score 13; DB 4; Length 40; 100.0%; Pred. No. 1.3e-03;
                                                                                                                                                                                          0; Indets
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: PROFEIN MODIFICATION METHOD FILE REFERENCE: 110-511
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TITLE OF INVENTION: PROTEIN MODEFICATION METHOD
                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/08/505,250
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PRIOR APPLICATION NUMBER: PCTZ/JP95/00298
PRIOR FILLING DATE: 1995-02-27
PRIOR APPLICATION NUMBER: JP 198187/94
PRIOR FILLING DATE: 1994-08-23
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PRIOR FILLIN: DATE: 1995-02-27
PRIOR APPLICATION NUMBER: JP 198187/94
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Patent No. 6422996
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Patent No. 6322996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION: DNA fragment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Ikeda, Masahiro
APPLICANT: Sakagami, Masahiro
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                   ORGANISM: Artificial Sequence
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APPLICANT: Sato, Haruya
APPLICANT: Yamamoto, Keiji
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SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                          13; Conservative
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Matches 19 conservative
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Suzuki, Kokichi
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                                                                                                                                                                      Best Local Similarity
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APPLICANT:
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APPLICANT: Vandamoto, Keciji
APPLICANT: Salvaki, Kokichi
APPLICANT: Bakadami, Masahiro
APPLICANT: Sakadami, Masahiro
APPLICANT: Taniquehi, Makoto
TILIE OF INVENTION: PROJEIN MOLFICATION METHOD
FILE REFERENCE: 110-511
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EARLIER FILLING DATE: 1995-02-27
EARLIER APPLICATION NUMBER: JP-198187/94
EARLIER FILLING DATE: 1964-08-23
NUMBER OF SECTION NOS: 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURKENT APPLICATION NUMBER: US/OH/505,250
CURKENT FILING DATE: 1995-11-29
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p Patent No. 648/583
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; Putent No. 6322996
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APPLICANE: Laniquebi, Makoto
                                                                                                                                               OBGANISM: Artificial Sequence
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PRIOR FILLING DATE: 1994-08-24
                                                 SOFIWARE: Patentin Ver. 2.0
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SEC 1D No 51
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APPLICANE: Suruki, Kokichi
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                           NUMBER OF SECTIONOS: 53
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                                                                                                                                                                                                                                                                                                                 Best Local Similarity
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Best Local Similarity
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US-08 505 250 51
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Search completed: March 14, 2004, 12:09:09
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APPLICANT: Bonahue, John P.
APPLICANT: Bonahue, John P.
APPLICANT: Bonahue, John P.
APPLICANT: Bonahue, John P.
APPLICANT: Ban, Kandireio
APPLICANT: Tan, Zhonqjia
TITLE OF INVENTION: "Sequence and Method for Genetic Enqineering of
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
FILE FEFERENCE: VI9841
CURRENT APPLICATION NUMBER: US/09/186,170
CURRENT APPLICATION NUMBER: 60/080,083
EARLIER FILING DATE: 1998-04-31
NUMBER: OF SEQ 1D NOS: 18
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                                                                                                                                                                                                                                                                                                                                 OTHER INFORMATION: Description of Artificial Sequence: synthetic OTHER INFORMATION: DNA tradment.
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 65.0%; Score 13: DB 4: Length 42; Best Local Similarity 100.0%; Pred. No. 1.38-03; Matches 13: Conservative 0; Mismatches 0; Indels
CURRENT APPLICATION NUMBER: US/08/505,250
                CURKENT FILING DATE: 1995-11-29
PRIOR APPLICATION NUMBER: PCTZIP95/00298
PRIOR FILING DATE: 1995-02-27
PRIOR FILING DATE: 1995-02-27
PRIOR FILING DATE: 1994-08-24
NUMBER OF SEQ ID NOS: 54
SOFTWARE: Patentin Ver. 2.0
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87.58;
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SEQ 10 No 18
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Matches 14; Conservative
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PAGES: 370-375
DATE: 1998-04-01
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US-09-18F 170-18
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                                                                                                                                                                                                   SEQ ID No. 51
LENGTH: 42
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                                                                                                                                                                                                                                                         TYPE: DNA
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Parent No. 6432680
FILLE OF INVENTION: Proteins with Cell Membrane Translocating Activity"
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                                                                                               APFLICANT: Lin, Yao-Zhond
APFLICANI: Donalue, John F.
APFLICANI: Kojas, Mauricio
APFLICANI: Tan, Zhong'ia
TITLE OF INVENTION: "Sequence and Method tor Genetic Engineering of
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Pred. No. 1.6e+03;
0; Mismatches 2; Indels
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IIII.E: "Genetic Engineering of Proteins with Cell Memorane
                                                                                                                                                                                                                                                                            FILE REFERENCE: 22000 009702
CURRENT APPLICATION NUMBER: US/09/562,868
CURRENT APPLICATION NUMBER: US/09/562,868
CURRENT FILING DATE: 2000 005-01
PRIOR PELLING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080,083
PRIOR APPLICATION NUMBER: 09/146,170
PRIOR FILING DATE: 1998-11-04
NUMBER: PSRO ID NOS: 18
SOFTWARE: FALCHIN NOS: 2.0
                     Sequence 18, Application 08/09562868 Extent No. 6432680
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ORGANISM: Artificial Sequence
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VOLUME: 16
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PAGES: 370-375
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Result No.	Score	% Query Match	% Query Match Length DB	<u>=</u>	110	Description
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Sequence 11, Application US/10116288
Farout No. US.COD.2014 1442A1
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GENURALI INPURATION.
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Yao-Zhong
APPLICANT: Lin, Wao-Zhong P.
APPLICANT: Lin, Wao-Zhong P.
APPLICANT: Rolas, Maritrion
APPLICANT: Borlas, Maritrion
APPLICANT: Tan, Zhong ia
TITLE OF INVENTION: Proteins with Cell Membrane Translocating Activity*
FILE REPERBACE: 2.2000.090410
FFILE REPERBACE: 2.2000.09040
FFILE REPERBACE: 2.2000.09040
FFILE REPERBACE: 1998 04 41
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CURRENT APPLICATION NUMBER: 18210/116,288
CURRENT FILING DATE: 2002-04-04
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AUTHORS: Rojas, M. et al.
TITLE: "Genetic Enquarering of Proteins with Cell Membrane
                                                                                                                                                                                                                               Score 15.8; DB 12;
Pred. No. 1.4e+02;
0; Mismatches 2;
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PRIOR PLLING IMALE: Z000 65-01
PRIOR APPLICATION NUMBER: 097186, 170
PRIOR FILING IMALE: 1208 11-04
PRIOR APPLICATION NUMBER: 60/080, 083
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// Patent No. US20020144142A1
// GENERAL INFORMATION:
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: Patent No. US/20020143142AL
: GENERAL INFORMATION:
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NUMBER OF SEC ID NOS: 18
SOFTWARE: Patentin Vol. 2.0
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APPLICANI: Fornahue, fohn P.
APPLICANI: Kojas, Meuricio
APPLICANI: Tan, Zhonejia
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Rojas, Manriejo
Tan, Zhonqjia
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APPLICANI: Donahae, John
APPLICANI: Rojas, Manici
APPLICANI: Rojas, Manici
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TITLE: Permeability"
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HS-10 116-288-13
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HILLS -F INVENITOR: "Sequence and Method for Genetic Engineering of
FILLS EFFERENCE: Zoungloughth Cell Membrane Translocating Activity"
FILE FEFFERENCE: Zoungloughth: US/10/116,248
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89.5%; Prod. No. 1.4000;
live 0; Mismatches 2; Indels (
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TITLE: "Genetic Engineering of Proteins with Cell Membrane
TITLE: Permeability"
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CURKENT APPLICATION NUMBER: US/10/116,288
CURRENT FILING DATE: 2002-04-04
PRICE APPLICATION NUMBER: 09/562,868
PRICE FILING DATE: 2000-05-01
PRICE FILING DATE: 1004
PRICE APPLICATION NUMBER: 09/186,170
PRICE APPLICATION NUMBER: 09/083
PRICE APPLICATION NUMBER: 00/080,083
PRICE APPLICATION NUMBER: 00/080,083
PRICE FILING DATE: 1998-03-31
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PRIOR FILING DATE: 2000-05-01
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 09/186,170
PRIOR FILING DATE: 1998-11-04
PRIOR APPLICATION NUMBER: 60/080,083
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PRIOR SEQ ID NOS: 18
NUMBER OF SEQ ID NOS: 18
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: Patent No. 0520020143142A1
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APPLICANT: Donahue, John P.
APPLICANT: Rojas, Mauricio
APPLICANT: Tan, Zhongjia
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SEQ 10 No 14
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Matches 17; Conservative
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PAGES: 470-375
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APPLICANT: Denable, John P. APPLICANT: Rolas, Marrielo APPLICANT: Tan. Zhonglico APPLICANT: Tan. Zhonglico Time Time OF INVENTIVE: Sequence and Method for Genetic Engineering of TILLE OF INVENTIVE: Proteins with Cell Membrane Translocating Activity."
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AUTHORS: Rojas, M. et al.

TITLE: "Genetic Enqineering of Proteins with Cell Membrane
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89.5%; Pred. No. 1.40.02;
                                                                                                                                                                                                                       79.0%; Score 15.8; DB 12; Length 33;
B9.5%; Pred. No. 1.4e+02;
1111.E: "Senetic Engineering of Proteins with dell Membrane
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                                                                                                                                                                                                                                                                        0; Mismatches
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CURRENT APPLICATION NUMBER: US/10/116,288
PRIOR APPLICATION NUMBER: 09/562,868
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION UNMERS: 09/186,170
PRIOR FILING DATE: 1998-11-04
PRIOR APPLICATION NUMBER: 60/080,083
PRIOR APPLICATION NUMBER: 60/080,083
PRIOR FILING DATE: 1998-03-41
NUMBER OF SEC 1D NOS: 18
SOFTWARE: Patentin Vor: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10, Application US/10116288
Fatent No. US20020143142A1
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1 September 5, April earlier US/09900527

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3 GENERAL INF BRAID W.
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ORGANISM: Artificial Sequence
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                                              JOHNNAL: Nature Biotechnology
VOLUME: 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 GCAGCAGTICTICTICTGFG 19
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Best Local Similarity 89.5%
Matches 17: Conservative
                                                                                                                                                                                                                  Query Match
Best Local Similarity 89.55
Matches 17; Conservative
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                       JITLE: Lameability"
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PAGES: 370-375
DATE: 1998-04-01
                                                                                             ; tSSUE: April
; PAGES: 370+35
; DATE: 1998-04-01
US-10-116-288-14
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US 10 116 288 18
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TITLE OF INVENTION: METHODS AND COMPOUNDS FOR PREVENTION OF GRAFT REJECTION
FILE REFERENCE: 01948-051003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Gaps
                                                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Sense primer corresponding to part of mouse blx2
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                                                                                                                                                                                                                                                                                                                                                                                                                                  69.0%; Score 14.8; DR 10; Length 23;
88.2%; Pred. No. 1.2c+03;
Live 0; Mismatches 2; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 12.8; DB 9; Length 20; Pred. No. 3.4e+03;
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                                                                                                   TITLE OF INVENTION: Production of Gabacteric Cells FILE REFERENCE: UCSF184
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                                                                                                                                                                                                                              NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                          CURRENT APPLICATION NUMBER: US/09/900,527 CURRENT FILLING DATE: 2001-07-05
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PRIOR FILLING DATE: 1999-05 04
PRIOR APPLICATION NUMBER: US 08/275,402
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PRIOR APPLICATION NUMBER: US-08/024,569
                                                                                                                                                                                     PRIOR APPLICATION NUMBER: US 60/218, 221
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PRIOR APPLICATION NUMBER: US-07/843.731
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Patent No. 0S20020164311A1
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// Patent No. 0820020143142A1
                                      Anderson, Stewart
Stuehmer, Thorsten
                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence
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87.5%;
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APPLICANT: Rubenstein, John L.
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                     Mione, Marina
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APPLICANT: Donahue, John
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                                                                               Yun, Kyuson
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Best Local Similarity
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APPLICANT:
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                                                                                                                                                                                                                                                                                                              TYPE: DNA
                                                                               APPLICANI:
                                                                                                                                                                                                                                                                                                                                                         FEATURE
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APPLICANT: Kirchhofer, Daniel K.
APPLICANT: Wood, William L.
TITLE OF INVENTION: No. USZ0020124091Atel Inhibitor of Hepatocyte Growth Factor Ac-
TITLE OF INVENTION: To USe in Modulation of Abglocenesis and Cardiovascularizati
FILE CERNER: Pl86:AGUS
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APPLICANT: lan, zhonetjia
TITLE OF INVENTEON: "Sequence and Method for Genetic Engineering of
TITLE OF INVENTEON: "Sequence with Coll Membrane Transferating Activity"
FILE REFERENCE: ZZnou,009783
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AUTHORS: Rojas, M. et al.

TITLE: "Generic Engineering of Proteins with Cell Membrane.
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Pred, No. 3.5ec03;
0; Mismatches 2; Indels
                                                                                                                                          CURRENT APPLICATION NUMBER 185/10/116, 288
CURRENT FILINI TATE 2002 04 04
FRICK APPLICATION NUMBER 195/562, 868
FRICK APPLICATION NUMBER 195/562, 868
FRICK APPLICATION NUMBER 10 04
FRICK FILINI DATE 1998 11 04
FRICK FILINI DATE 1998 10 04
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CURRENT FILLING DATE: Z000 12 49
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PRIOR APPLICALION NUMBER: PCT/US00/03565
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PRIOR APPLICATION NUMBER: PCT/US00/06884
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; Patent No. USZ0020123091A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Attiticial Sequence
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NUMBER OF SEQ 1D NOS: 6
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                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Ver. 2.0
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APPLICANT: Corney, Austin L.
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Rest Local Similarity 87.59
Matches 14: Conservative
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DATE: 1998-04-01
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US 09 742 201 6/c
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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic LITLE OF INVENTION: Acids Eucoding the Same
                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/U9/978, 295A
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PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILLING DATE: 2001-07-30
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PRIOR APPLICATION NUMBER: 60/080428
                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/062250
                                                                                                                                                                                                                                                                                                                                 PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
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PRIOR APPLICATION NUMBER: 60/066364
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APPLICALES NUMBER: 60/077791
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APPLICATION NUMBER: 60/078936
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PRIOR APPLICATION NUMBER: 60/079294
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APPLICATION NUMBER: 60/079656
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                                                                                                                          Williams, P. Mickey
Wood, William I.
                                                                                 Stewart, Timothy A.
                       Paceni, Nicholas F.
                                      Roy, Margaret Ann
Shelton, David L.
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                                                                                                         Tumas, Daniel
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APPLICANT: Freezey, Manifee
APPLICANT: Spaniding, Vikki
APPLICANT: Spaniding, Vikki
APPLICANT: Spaniding, Vikki
APPLICANT: Spaniding, Vikki
APPLICANT: Genetics Institute, Inc.
ITLE OF INVENTION: SECRETED PROFEINS AND FOLYNUCLEGILDES ENCODING THEM
FILE REFERENCE: GI 6000-10A
GURRENI APPLICATION NUMHER: US/10/114,894
GURRENI FILING DATE: 2002-04-02
FARLIER FILING DATE: 1999-10-06
NUMHER: OF SEQ ID NOS: 421
SVETIMER: FILING NAMP. 422
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Mismatches
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Grimaldi, J. Christopher
Gurrey, Austin L.
Hillan, Kenneth J
                                                                                                                                                                               Sequence 241, Application US/10114894
Publication No. US20020193567A1
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US-10-114-893-241
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APPLITANI: McCoy, John M.
APPLITANI: LaVallio, Edward R.
APPLITANI: Collins-Kacic, Lisa A.
APPLITANI: Evans, Cheryl
APPLITANI: Merberg, David
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78.9%;
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Filvaroff, Ellen
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Gerber, Hanspeter
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Botstein, David
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Matches 14; Conservative
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Best Local Similarity
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FILING DATE: 1998-04-22 APPLICATION NUMBER: 60/082700 APPLICATION NUMBER: 60/081952 FILING DATE: 1998-04-15 FILING DATE: 1998-04-29 APPLICATION NUMBER: 60/083496 60/084499 1998-04-29 UMBER: 60/083559 60/083500 PRIOR APPLICATION NUMBER: 60/084414 60/084441 PRIOR APPLICATION NUMBER: 60/084637 FILING DATE: 1998-05-07 APPLICATION NUMBER: 60/0846/99 APPLICATION NUMBER: 60/080333 APPLICATION NUMBER: 50/080334 LICATION NUMBER: 60/081070 APPLICATION NUMBER; 60/081195 APPLICATION NUMBER: 60/081203 APPLICATION NUMBER: 60/081229 110ATION NUMBER: 60/081955 60/081817 APPLICATION NUMBER: 60/081819 APPLICATION NUMBER: 60/081838 LICATION NUMBER: 60/082568 LICATION NUMBER: 60/082569 60/082704 60/082804 60/082797 60/082796 911110/09 524480/03 281180/09 60/084495 60/083545 60/084554 60/083558 APPLICATION NUMBER: 60/083742 60/084 466 APPLICATION NUMBER: 60/081049 APPLICATION NUMBER: 60/081071 1998-04-29 1998-04-29 1998-04-29 1998 - 04 - 29 1998-04-29 1998-04-29 1998-04 30 1998-04-22 1998-04-23 1998 04 28 1998-04-29 1998:05 06 FILING DATE: 1998-04 08 1998-04-08 1998-04-08 1998-04-08 1998-04:09 1998-04-15 1998-04-22 1998-04-22 1998 04 27 1998-05-05 1998-05 06 1998-04 01 1998-04-09 1998 - 04 15 ING DATE: 1998-04-21 BICATION NUMBER: 60/ 1998-04-01 1998-04-15 1998-04 15 1998-04-21 APPLICATION NUMBER: FILING DATE: 1998-04 APPLICATION NUMBER: FILING DATE: 1998-04 APPLICATION NUMBER: PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: JUNEAU NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: 1998-0 APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: ICATION NUMBER: JOATTON NUMBER: FILLING DATE: FILLING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILLING DATE: PRIOR FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: INC DATE: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: PRIOR FILING DATE: FILLING DATE: FILLING DATE: AP-P-I APP â Ā PR IOR PRIOR PRIOR 7 2 2 2 3 3 7 7 7 2 5 7 3 7 7 7 7 7 2 2 3 4 5 7 7 2 2 2 2 3 4 1-R1-0-R PRIOR PRIOR PRIOR PKIOK HELEK PRIOR 원인원 PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRICK PRIOR PRIOR 된지 PRIOR PRIOR PRICE

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                                                         PRIOR APPLICATION NUMBER: GO/GM459B PRIOR PILANI IDATE: 1998 05 07 PRIOR APPLICATION NUMBER: GO/GM4600 PRIOR PILANI IDATE: 1998 05 07 PRIOR PILANI IDATE: 1998 05 07
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PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/08533
PRIOR FILING DATE: 1998-05-13
PRIOR FILING DATE: 1998-05-13
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Patent No. US20020169284A1
                       PRIOR APPLICATION NUMBER: 60/084640
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PRIOR APPLICATION MIMHER: 60/08/558/2
PRIOR FILING DATE: 1998 OS 15
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PRIOR FILING DATE: 1998-05-15
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PRIOR APPLICATION NUMBER: 60/085580
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Goddard, Andrey
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Hillan, Kenneth J
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Shelton, bavid L.
PRIOR FILLING DATE: 1998-05-07
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Kuo, Sophia S.
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Gao, Wei Qianq
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APPLICANT: Baker Kevin P.
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Williams, F. Mickey

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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic CURRENT APPLICATION NUMBER: US/09/978,697 PRIOR FILLING DATE: 1998-04-27
PRIOR FILLING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR APPLICATION NUMBER: 60/07972
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PRIOR PELING DATE: 1998-04-27
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PRICHE APPLICATION NUMBER: 09/518585
PRICHE FILING IMPE: 2001-10-16
PRICHE FILING IMPE: 2001-07-30
PRICHE FILING IMPE: 1097-10-17
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PRICHE FILING IMPER: 60/077641 APPLICATION NUMBER: 60/078910 FILING DATE: 1998-03-20 APPLICATION NUMBER: 60/078939 FILING DATE: 1998-03-20 APPLICATION NUMBER: 60/078886 FILING DATE: 1998-03-20 APPLICATION NUMBER: 60/078936 APPLICATION NUMBER: 60/079294 FILLING DATE: 1998-03-25 APPLICATION NUMBER: 60/079656 PRIOR FILING DATE: 1998-03-27 PRIOR APPLICATION NUMBER: 60/079689 PRIOR FILING DATE: 1998-03-27 PRIOR APPLICATION NUMBER: 607080194 PRIOR FILING DATE: 1998-03 31 APPLICATION NUMBER: 60/080433 APPLICATION NUMBER: 60/081070 FILING DATE: 1998-04-08 APPLICATION NUMBER: 60/081049 FILLING DATE: 1998-03-11 APPLICATION NUMBER: 60/077791 FILING DATE: 1998-03-12 PRIOR APPLICATION NUMBER: 60/080328 APPLICATION NUMBER: 60/080334 APPLICATION NUMBER: 60/077649 APPLICATION NUMBER: 60/078004 FILING DATE: 1998-03-13 FILING DATE: 1998-03-26 APPLICATION NUMBER: 60/079664 APPLICATION NUMBER: 60/080327 FILING DATE: 1998-03-20 1998-04 01 10-10-8651 1998-04-01 1958-04-01 Wood, William f FILE REFERENCE: P2630P1027 FILL CALE APPLICANT: PRIOR

APPLICATION NUMBER: 60/083499 FILING DATE: 1998-04-29 APPLICATION NUMBER: 60/084598 FILING DATE: 1993-05-07 APPLICATION NUMBER: 60/084600 FILING DATE: 1998 5-07 APPLICATION NUMBER: 60/081195 FILING DATE: 1958-04-08 APPLICATION NUMBER: 60/081203 FILLIN DALE: 1998-04-09 APPLICATION NUMBER: 60/081229 FILLING DALE: 1998-04-09 APPLICATION NUMBER: 60/082700 FILING DATE: 1998-04-22 APPLICATION NUMBER: 60/083336 FILING DATE: 1998-04-27 APPLICATION NUMBER: 60/083392 FILING DATE: 1998: 04:29 APPLICATION NUMBER: 60/083554 FILING DATE: 1998-04-29 002880/09 FILING DATE: 1998-04-29 APPLICALION NUMBER: 60/083742 APPLICATION NUMBER: 60/084414 APPLICATION NUMBER: 60/084637 APPLICATION NUMBER: 60/084639 APPLICATION NUMBER: 60/081071 FILING DATE: 1998-04-08 APPLICATION NUMBER: 60/081817 FILING DATE: 1998-04-15 APPLICATION NUMBER: 60/081819 FILING DATE: 1998-04-15 FILING DATE: 1998-04-21 APPLICATION NUMBER: 60/082569 APPLICATION NUMBER: 60/082704 FILING DATE: 1998-04-22 FILING DATE: 1998-04-22 APPLICATION NUMBER: 60/082796 APPLICATION NUMBER: 60/083322 FILING DATE: 1998-04-28 APPLICATION NUMBER: 60/083495 APPLICATION NUMBER: 60/083496 APPLICATION NUMBER: 60/083545 APPLICATION NUMBER: 60/083558 60/083559 60/084366 APPLICATION NUMBER: 60/084441 APPLICATION NUMBER: 60/081955 FILING DATE: 1998-04-15 APPLICATION NUMBER: 60/081952 APPLICATION NUMBER: 60/081838 APPLICATION NUMBER: 60/082568 APPLICATION NUMBER: 60/082804 APPLICATION NUMBER: 60/082797 FILING DATE: 1998-04-29 APPLICATE N NUMBER: 60/0 1998 05-07 1998:04 29 1998-04-29 1998:04-30 30-50-8661 1998-05-06 1998-05-06 1993 05 07 1993-05-07 1998-04-15 1998-04-23 1998-04-29 1998-04-29 1998 04 15 1998-04-22 1998-04-21 APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: FILLING DALE: ILING DATE: FILING DATE: FILING DATE: FILLING DAFF: FILING DATE: FILING DATE: LING DATE: FILLING DATE: FILLING DATE: FILING DALE: LING DATE: FILING DATE: PKIOK PRIOK PRIOK PRIOK PRIOK PRIOR 동물 PRIOR PRIOR

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Gurney, Austin L.
Hillan, Kenneth J
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FILING DATE: 1998-05-15
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PRIOR APPLICATION NUMBER: 09/918585
                                  APPLICATION NUMBER: 60/084643
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APPLICATION NUMBER: 60/085338
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PRIOR APPLICATION NUMBER: 60/084627
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Goddard, Audrey
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Shelton, David L.
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PRIOR FILING DATE: 1998-04-20
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PRIOR FILING DATE: 1998-03-20
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PRIOR APPLICATION NUMBER: 60/077632
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PRIOR FILING DATE: 1997 II 13
PRIOR APPLICATION NUMBER: 6070
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PRIOR APPLICATION NOMBER: 60/2
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PRIOR APPLICATION NUMBER: 60/0
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APPLICATION NUMBER: 60/083558 FILING DATE: 1998-04-29 FILLING DATE: 1998-05-06 APPLICATION NUMBER: 60/084637 APPLICATION NUMBER: 60/084600 APPLICATION NUMBER: 60/085339 FILING DAIR: 1998-04-09 APPLICATION NUMBER: 60/081955 APPLICATION NUMBER: 60/082568 FILING DATE: 1998-04-21 APPLICATION NUMBER: 60/082569 APPLICATION NUMBER: 60/082704 FILING DATE: 1998-04-22 APPLICATION NUMBER: 60/082700 APPLICATION NUMBER: 60/082797 95/280/09 APPLICATION NUMBER: 60/083336 APELLCATION NUMBER: 60/083322 APPLICATION NUMBER: 60/083392 APPLICATION NUMBER: 60/083495 FILING DATE: 1998-04-29 APPLICATION NUMBER: 60/083496 APPLICATION NUMBER: 60/083499 APPLICATION NUMBER: 60/083545 APPLICATION NUMBER: 60/083554 FILLING DATE: 1998-04-29 APPLICATION NUMBER: 60/083559 FILING DATE: 1998-04-29 APPLICATION NUMBER: 60/083500 APPLICATION NUMBER: 60/083742 APPLICATION NUMBER: 60/084366 APPLICATION NUMBER: 60/084414 APPLICATION NUMBER: 60/084441 APPLICATION NUMBER: 60/084649 APPLICATION NUMBER: 60/084640 APPLICATION NUMBER: 60/084598 60/084627 APPLICATION NUMBER: 60/081229 APPLICATION NUMBER: 60/081952 60/081848 60/082804 APPLICATION NUMBER: 60/081817 1998-04-30 1998-05-07 1998-04-29 1998-05-06 70-50-8661 1998-05-07 1998-05:07 1998-05-14 1998-04-24 1998-04-28 1998-04-29 1998-04-29 1998-04-29 1998-04-29 1998-05-07 FILING DATE: 1998-04-15 1998-04-22 1998-05-05 1998-04-15 FILING DATE: 1998-04-15 1998-04 15 1998-04-21 77-10-866 1998-04 22 1998-04-27 1998-04-15 APPLICATION NUMBER: FILING DATE: 1998-04 FILING DATE: 1998-04 APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: FILLING DAFE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DAFE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DAFE: FILLING DATE: FILING DATE: FILING DATE: FILING DATE: PRIOR FR [] R

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APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
HILE OF INVENTION: Acids Encoding the Same
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CHREENC FILLING DATE: 2001-10-24
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Grimaldi, J. Christopher
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                                                                                                            PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
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DRICH APPLICATION UNDREW: 60/085579
PRIOR FILING DATE: 1998-05-15
PRICH APPLICATION NUMBER: 60/085580
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PRIOR FILLING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
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PRIOR APPLICATION NUMBER: 60/085697
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PRIOR FILLING DATE: 1997-11-13
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PRIOR FILLING DATE: 1998-05-15
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Hillan, Kenneth J.
Kljavin, Ivar J.
Kno, Sophia S.
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Facti, Nicholas F.
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Gerber, Banspeter
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Rotstein, David
Desnoyers, Luc
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Best Local Similarity 78.95
Matches 15, Conservative
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                                           FILING DATE:
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IIS-09-999-832A-507c
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FILING DATE: 1998-03-27 APPLICATION NUMBER: 60/079920 FILING DAFE: 1998-03-31 APPLICATION NUMBER: 60/080165 FILING DATE: 1998-04-01 APPLICATION NUMBER: 60/080334 60/081229 FILING DATE: 1998-04-15 APPLICATION NUMBER: 60/081819 APPLICATION NUMBER: 60/077450 APPLICATION NUMBER: 60/077642 APPLICATION NUMBER: 60/077641 APPLICATION NUMBER: 60/077649 APPLICATION NUMBER: 60/078004 APPLICATION NUMBER: 60/078886 APPLICATION NUMBER: 60/078936 APPLICATION NUMBER: 60/078910 APPLICATION NUMBER: 60/078949 APPLICATION NUMBER: 60/079294 APPLICATION NUMBER: 60/079656 APPLICATION NUMBER: 60/079664 APPLICATION NUMBER: 60/079689 APPLICATION NUMBER: 60/079663 APPLICATION NUMBER: 60/079728 APPLICATION NUMBER: 60/079786 APPLICATION NUMBER: 60/079923 APPLICATION NUMBER: 60/080105 FILING DATE: 1998-03-31 60/080107 APPLICATION NUMBER: 60/080194 APPLICATION NUMBER: 60/080327 APPLICATION NUMBER: 60/080328 APPLICATION NUMBER: 60/080333 60/081070 APPLICATION NUMBER: 60/081049 APPLICATION NUMBER: 60/081071 PRIOR APPLICATION NUMBER: 60/081195 60/081203 60/081955 PRIOR APPLICATION NUMBER: 60/081817 APPLICATION NUMBER: 60/066364 APPLICATION NUMBER: 60/077791 1998 04 20 1398 03 40 01 10-8661 1498-01-1 1998-04-20 1998-03-30 1998 04 08 1998-04-08 1998:04-08 1998 04 09 1998 04 09 1998-04 15 13-11 7991 1998-04-12 1998-04-20 1998-04-20 1998-03-27 1998-04-27 1998-04-41 1998-04-01 1998-04-01 1998-04-01 1998-04-08 1498-04-11 1998 03:25 1998-04-26 1998-01-27 1998-01-27 1998-01-41 1998-04-41 1998-03-11 1998-04-11 APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: PRIOR APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILING DATE: LING DATE: FILING DATE: FILING DATE LING DATE FILLING DATE PRIOR PRIOR PRIOR PRIOR PRIOR 7 7 7 7 7 7 PRIOR PRIOR PR 10 R PR 10 R PR 10 R PRIOR PRIOR PR 10 K 74 74 75 75 75 75 PRICK PRIOR PRIOR 74 10 X PRIOR X : 1 X : PRIOR 1.K 1. . K PRIOR アスニメイ PRIOR PRICK **: *: 30.34 PRIOR RIOK PRIOR PRIOR 75.135

JUMBESS. 1998-04-22 TTEER; 60/082804 APPLICATION NUMBER: 60/081952 PRIOR APPLICATION NUMBER: 60/081838 PRIOR APPLICATION NUMBER: 60/082700 PRIOR FILLING DATE: 1998-04-22 FILLING DATE: 1998:04-27 APPLICATION NUMBER: 60/084422 APPLICATION NUMBER: 60/084640 60/084600 APPLICATION NUMBER: 60/084643 APPLICATION NUMBER: 60/085582 APPLICATION NUMBER: 60/085700 FILING DATE: 19 08 05 15 895780/09 APPLICATION NUMBER: 60/082569 APPLICATION NUMBER: 60/082704 797240703 APPLIFUALTON NUMBER: 60/083336 PRIOR APPLICATION NUMBER: 60/08/192 5848 BOZO9 APPLICATION NUMBER: 60/083496 55.45.80/03 60/084545 60/083554 APPLICATION NUMBER: 60/08358 APPLICATION NUMBER: 60/083559 002180709 APPLICATION NUMBER: 60/084742 60/084366 APPLICATION NUMBER: 60/084414 APPLICATION NUMBER: 60/084441 60/084647 APPLICATION NUMBER: 60/084639 APPLICATION NUMBER: 60/084598 APPLICATION NUMBER: 60/084627 APPLICATION NUMBER: 60/085339 1998 04 23 1998-04-29 1998 04 29 1998 05-14 1998 05 14 FILLING DATE: 1998 OF 15 1998 04 15 1998-04-22 1998 04 29 1998 04 29 1998 - 04 29 FILLING DATE: 1998-04-29 FILLING DATE: 1998-05-07 1998 05 13 1998 04 15 1998 04-21 FILLING DALE: 1998 04 21 1998 04 22 FILLING DAFE: 1998-04-28 67 - PO H661 1998 04-29 1998 04 29 FILLING DATE: 1998 04 30 1958 US 05 FILLING DATE: 1998-05-06 FILING DATE: 1998 05:06 1998 05:07 1998-05-07 1998 05 07 1998 OS 07 1998 05 07 199B 05 07 PRIOR APPLICATION NUMBER: PRIOR FILING DATE: 1998-04 FILING DALE: 1998 04 APPLICATION NUMBER: APPLICATION NUMBERS PRIOR APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: LICALION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBERS THE PART OF THE FILING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILLING DALE: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILING DALE ELLING DATE

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PRIOR FILING DATE: 1998-05-15
PRIOR FILING DATE: 1998-05-15
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PRIOR PELING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/045580
PRIOR APPLICATION NUMBER: 60/045580
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Grimaldi, J. Christopher
Gurney, Austin L.
Hillan, Kenneth J
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PRIOR FILINI DATE: 1997-10-17
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PRIOR APPLICATION NUMBER: 09/918585
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PRIOR FILING DATE: 1998-03-11
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Wood, William I.
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Shelton, David L.
Stewart, Timothy A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 1998-03-10
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Goddard, Audrey
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Filvaroff, Ellen
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Kuo, Sophia S.
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Best Locil Similarity 78.9%
Matches 15; conservative
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APPLI'ANT: Baker Kevin P.
APPLI'ANT: Hotstein, David
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FILLING DATE: 1998-03-27
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FILING DATE: 1998-03-31
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APPLICATION NUMBER: 60/080327
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APPLICATION NUMBER: 60/080328
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APPLICATION NUMBER: 60/080333
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APPLICATION NUMBER: 60/081195
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APPLICATION NUMBER: 60/081203
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APPLICATION NUMBER: 60/077649
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FILING DATE: 1998-03-13
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APPLICATION NUMBER: 60/079923
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APPLICATION NUMBER: 60/083336
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                                                                                               63.0%; Score 12.6; DB 9; Length 45; 78.9%; Pred. No. 4.5e(03; Tidels 0; Mismatches 4; Indels
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NUMBER OF SEC ID NOS: 624
Prior Application removed - See File Wrapper or Palm
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                 PRIOR APPLICATION NUMBER: 60/08/5/04
PRIOR PILLING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/08/5697
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Wood, William I.
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                                                                                               Onery Match
Rest Local Similarity 78.9%;
Matches 15; Conservative
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PRIOR FILING DATE: 1998-05-15
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Filvarott, Ellen
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Godowski, Paul J.
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Botstein, David
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: Sequence 310, Application US/09853526

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OTHER INPORATION: (24). (24)
OTHER INPORATION: potential microsequencing office 99-12907 295.mist
NAME/KEY: primer_bind
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OTHER INPORMATION: complement potential microsequencing office 99-12907 295.mist.
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CHER INFORMATION: polymorphic framment 99-12907 295, variant version of SE, 11
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TILLE OF INVENITON: Methods for Requiating Plant GABA Production
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APPLICANT: Treland, James S.
APPLICANT: Treland, James S.
APPLICANT: Lander, Elic S.
FITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE POLYMORPHISMS FILE REFERENCE: 2825,2009-001
CURRENT APPLICATION NUMBER: US/09/801,274
CURRENT APPLICATION NUMBER: US 60/187,510
PRIOR FILING DAIE: 2000-03-07
PRIOR APPLICATION NUMBER: US 60/205,129
PRIOR APPLICATION NUMBER: US 60/205,129
PRIOR FILING JAIE: 2000-05-22
NUMBER OF SEQ. IO NOS: 180.2
SOPTWARE: FASESEQ FOR WINDOWS VERSION 4.0
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Pred. No. 5.4e+03;
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CURRENT FILLING DATE: 2002-07-01
PRIOR APPLICATION NUMBER: 05-60/246,367
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; Patent No. US2002004219Al
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; Sequence 21, Application US/10006852
; Publication No. US20030046732A1
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Matches 15, Conservative
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ORGANISM: Homo sapiens
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Offick inFoRMATion: polymorphic fraqment 99-12907-295, variant version of SEQ 1D233
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                                                                                                                                                                                             CURKEN: APPLICATION NUMBER: US/09/853,526
CURKEN: FILING DATE: 2001-05-11
                                                                                            APPLICANI: Ilya, chumakov
APPLICANI: Bonquederet, Lydio
IIII. FINVENTION: PROSTATE CANCER GENE
FILE FEFEKENCE: GENSEL BGPLCP
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LITLE OF INVENTION: Prostate Cancer Gene
FILE REFERENCE: GEN-FILLXC3D2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US 60/099,658 PRIOR FILLN'S TATE: 1998-09-09 PRIOR APPLICATION NUMBER: US 04/21H,207 PRIOR FILLNG TATE: 1998-12-22 PRIOR FILLNG TATE: 1998-12-22
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PRIOR FILING DATE: 1997-12-22
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PRIOR FILING DATE: 2001-05-11
                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 09/338, 907
PRIOR FILING DATE: 1999-06-23
PRIOR APPLICATION NUMBER: 08/996, 406
PRIOR PELLING DATE: 1997-12-22
PRIOR PELLING DATE: 1997-12-22
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 09/218,207
PRIOR PELLING DATE: 1998-12-22
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; Patent No. 0520020119460A1
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APPLICANT: Blumenteld, Marta
APPLICANT: Chumakov, llya
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                                           APPLICANI: Cohen, Daniel
APPLICANI: Blumenfeld, Marta
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Best Local Similarity 78.93
Matches 15; Conservative
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SOFTWAKE: Patent.pm
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US20020165445A1
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ORGANISM: Homo Sapiens
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LowAllon: 1..23
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LOCALLON: 25..47
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                       I NEORMATION:
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82.4%; Pred, No. 6.9e(03; ive 0; Mismatches 3

s 14; Conservative z CASCAGITOTIOTOCET 18

Best Local Similarity

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Pred, No. 6.7e+03;
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COMPUTER READANLE FORM:
MEDIUM TYPE: 5,25 inch, 60 Kb floppy disk
COMPUTER: IMM PC compatible
                                                                                                                                                                    OTHER INFORMATION: Synthetic oliqonucleotide primer
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                                                                                                                                                                                                                                                                                0; Mismatches
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FILING DATE: 17-Dec-2001
CLASSIFICATION: URKNOWN:
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FILING DATE: 12-MAY-1995
APPLICATION NUMBER: 08/340161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENTE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM: PT DOS/MS DOS
SOFTWARE: pat in (Genentech)
CURRENT APPLICATION DATA:
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APPLICATION NUMBER: 08/035430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 22-MAR-1993
APPLICATION NUMBER: 07/705256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 712
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STAFE: Calitornia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 24-MAY 1991
ALFORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 6, Application US/10022609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: 415/952 9881
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                                                                                                                                                                                                                                   Query Match 61.0%;
Host Local Similarity 82.4%;
Matches 14; Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                : Publication No. HS20040024045A1
GENERAL INFORMATION:
                                        SOFTWARE: Patentin version 3.1
                                                                                                                           ORGANISM: Artificial Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEC 1D NOT 6:
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PRIOR FILING DATE: 2000-11-07
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                    NUMBER OF SEQ ID NOS: 24
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                                          SUP 10 NO 21
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                                                                                                         TYPE: DNA
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APPLICANI: Jones, Kenneth A
111LE OF INVENTION: DNA Enceding A GABA BRZ Folypoptide And Uses Thereof
FILE REFERENCE: 5400.cepctus
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Pred, No. 6.9e+04;
0; Mismatches 4; Indels
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B2.4%; Pred; No; 6.9ec0 c;
Five 0; Mismatches 4;
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CURRENT APPLICATION NUMBER: US/09/818,879
CURRENT FILENCIALE: 2001:04:27
PRIOR APPLICATION NUMBER: US-09/211,755
                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: 08/09/793,139
                                                                                                                              ; Sequence 6, Application US/09794139
; Patent No. US20020156265A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 6, Application US/09818879
Patent No. US20010024289A1
                                                                                                                                                                                                                                                                             CURRENT FILLING DATE: 2001-02-26
NUMBER OF SEC-1D NOS: 55
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82.4%;
                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
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APPLICANT: Laz, Thomas
APPLICANT: BOLOWSKY, Beth
23 CAGAAGTTCTTCTT 7
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; OTHER INPORMATION: primer
US-09 BIB-879 6
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NUMBER OF SEU ID NOS: 55
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BS+09-793-139-6
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61.0%; Score 12.2; DR 9; Length 42;

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APPLICANT: Harany, Francis
APPLICANT: Lubin, Matthew
TITLE OF INVENTION: DETECTION OF NUCLEIC ACID SEQUENCE DIFFERENCES USING
TITLE OF INVENTION: DOTECTION OF SECURITY AND POLYMERASE CHAIN REACTIONS
FILE REFERENCE: 19603/441
CURRENT APPLICATION NUMBER: US/09/918,156
PRICE APPLICATION NUMBER: 09/918,156
PRICE APPLICATION NUMBER: 2001-01-30
NUMBER: 0F SEQ. ID NOS: 76
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                                                                               GENERAL INFERRATION:
GENERAL INFERRATION:
GENERAL INFERRATION:
TILLS - F INVENTION: LNA Encoding a GABARKZ Polypeptide And Uses Thereof
ITLE - F INVENTION: LNA Encoding a GABARKZ Polypeptide And Uses Thereof
ELLE REFERENCE: 1795/4002-10
CURRENT APPLICATION NUMBER: US/09/211,755B
PRIOR APPLICATION NUMBER: US/09/186,654
PRIOR APPLICATION NUMBER: 09/186,654
PRIOR FILING DATE: 1998-11-04
NUMBER OF SEQ ID NOS: 55
SOFTWARE: Patentin version 4.1
SEQ ID NO 6.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ouery Match 61.0%; Score 12.2; DB 10; Lawath 45; Best Loval Similarity 82.4%; Pred. No. 6.9e-03; Matches 14; Conservative 0; Mismatches 3; Endels 1
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Job time : 50,1148 sees
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; Sequence 59 Application 08/09918156
; Publication No. 08/20900030016Al
; GENERAL DEGEMETON:
                                 : Sequence 6, Application US/09211755B
: Patent No. US20020045742A1
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Edwards.C.A., 2011O.J.C.K., Andrews.B.M., Turin,L.M. and Pry,K.B.
Sequence directed DNA binding molecules compositions and methods
Parent: US 6.644208 A 269-07 MAY 2002.
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Edwards,C.A., Canton,C.K., Andrews,R.M., Turin,L.M. and Fry,K.E.
Method of determining DNA sequence preference of a DNA binding
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Chaux, E., Strodbant, V., Boon Falleur, E., Van der Bruggen, E.,
Thielemans, K. and Kurthals, J.
Mane 4 peptides puesented by HLA class II melecules
Patent: US 6291430 A 19 18 SEP 2001;
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Edwards,C.A., Cantor,C.K., Andrews,H.M., Turin,L.M. and Fry,K.E.
Sequence-directed DAA-binding molecules compositions and methods
Patent: US 5578444-A 269 26-NoV-1996.
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Edwards,C.A., Cantor,C.R., Andrews,B.M. and Turin,L.M.
Screening assay for the detection of DNA-binding molecules
Patent: US 5726014-A 269 10-MAR-1998;
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FI MCKELAND DAVID GIBDSU, HYTL MCRGAN, DATAN PURATONIOTISU WILLIAM

PC C12N15/09, C11D3/346, C12N1/21, C12N9/42//(C12N1/21, C12R1:19), PC
(C12N9/42, C12R1:19), C12N15/00
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[ (bases 1 to 30)

[ (bases 1 to 30)

[ Worllow, J. adequemend, S., Torrent, C. and Darlix, J.

[ Movel, INTERNAL RIBESOME ENLAY SITE, VECTOR CONTAINING SAME AND THERAPEUTICAL, USE THEREOF
                                         l (bases 1 tó 28)
EdijiA.: Pedaeroloko, Koy,M.D., Gurahamu.K.E., Morejand.D.S.,
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PI PALJI ANDERSON, PETAER L. BANDKUISUTO, KOY M DANIEL. PI
CURAHAMU K FARINTON,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               65,7%; Score 13.8; D# 6; Length 28;
88.2%; Pred. No. 1.7e+05;
live 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Zordanism-'Artificial Sequence'
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/ordanism "synthetic construct"
/db_xret "taxon:32630"
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                                                                                                       Truncated cellulase composition
Patent: JP 1999221086-A 6 17-A0G 1999;
CLAKIANI INTERNATIONAL LID
OS ANTITICIAL Sequence
IN JE 1999221086 A/6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ONST NAT SANTE RECH MED (FR) editor publication AU 2929595 960125 other publication FR 2722208 960112.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Patent: WO 9601424-A 8 18-JAN-1996;
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/db_xret "taxon:32644"
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A48363
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                                                                                     Hyu, M. and Dalan, P.W.
                       ntificial sequences.
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PAT 17-DB* 2001
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Milan, 11ALY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota, Metazoa, Chondata, Craniata, Vertebrata, Enteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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Mozzl.F., Bertuzzl.S., Strind.D., Giannetto,C., Vezzonl.P.
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80.0%; Pred. No. 1.90:05;
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X95914
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3; Mismatches 0
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                                                                                                                                                                                                                                                                                           l (bases 1 to 44)
Milher,J. and Veldhoen,N.
Tumour suppressor gene
Parent: US 6407046-A 5 24-037-2001;
                    Sequence 5 from patent US 6407036.
AR174752
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/db_xret "taxon:9606"
/chromosome "11"
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Hlx-1 genez LIM 1 protein.
Homo sapiens.
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STAVHELHAUS FORSTEN (DE) : KONZ DIRK (DE) ; MOOLZ HENNING (DE) ;
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Pred. No. 3,30005;
0; Mismatches 3; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism "synthetic construct"
/db xref "faxon;32630"
/note "Synthetic oligometeotide probe"
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/db xret "taxon:1424"
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                                                                                                        Sequence 428 from Fatient We0073454.
AX403541
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                  artificial sequences.
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Matches 14, Conservative
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                                  PAT 29-SEP-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEKIGUCHI KIYOTOSHI, AKAMATSU DAIKI, MATSUYAMA SATOSHI, PI
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                                                                                                                                                                                                                                                                l (buses 1 to 25)
Sekiquehi,K., Akamatsu,D., Matsoyama,S. and Tchihata,K.
CHIMERA PROTEIN AND ITS PROBOTION
Patent: JP 1996140672-A 1 04-JUN-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism 'Artificial sequences'
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Patent: US 5994132-A 2 30-NoV-1999;
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Chamberlain, J.S. and Kumar-Singh, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 7 from patent US 5994142,
AR091539
AR091549.1 GI:10018294
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a 9 c 7 q
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/organism "unknown"
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JP 1996140677 A/I
04-JGN-1996
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hypothetical: No:
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JP 1996140677-A/1.
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Best Loral Similarity 83.3%;
Matches 15; Conservative
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83.3%; Pred. No. 3.1e+05;
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Patent: Wo 0177172-A 184 18-00T-2001;
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Chanter Latti 4.8, and Kumar Singh, K.
Adeovins vectors
Parent: US 6084750-A 7 04-JUL-2000;
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83.3%; Pred. No. 4.1e+05;
Live 0; Mismatches 3; Indels
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Zdb_xref "taxon:32644"
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and Wanq, X.M.
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83,30; Pred, No. 2,9ec05;
Five 0; Misharches 3; Indels
Number 1 ide sequence 1s from patent number We9005185
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Zdb xret "Laxon: (26.00"
Znote "Coden optimized BPV16_El tragment"
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BarryPull, Santi,D.V., Ashley,G.W. and Ziermann,E.
Production of polyketides in bacteria and yeast
Patent: US 6,588566 A 4 To JUL 2001;
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Palent: Wo 0114416 A 64 01:MAR 2001;
Merek & Co., Inc. (US)
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AXORB738
AXOBB738.1 GL:13397534
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ARF-2153
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artificial sequences.
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Joilties, LW, and Shi,N. O.
Obsruption of the eytochrome cogne in xylose-fermenting yeast
Patent: 0s 6071729-A 15 Obs.JUN-2000;
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Friderici K., Jones,M.Z., Chen.B. and Caranath.K.I.
Bovine, bera -mannasidase puriele acid sequence
Patent: US 58378 0. A 16 17 NOV-1998;
Location/Qualitiers
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Sequence 16 from patent US 5847836.
AR058910.1 G1:5984487
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Sequence 15 from patent US 6071729,
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PAT 19-081-1999
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Taylor, G. and Stoff, E.J.
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Shidden LHD (GB); TAYLOR GERALDINE (GH)
Location/Qualitiers
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    Mismatches

Sequence 16 from patent US 5605797.
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Sequence 45 from Patent W09320210.
A76106
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Job time : 509.094 sees
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The present invention relates to transforming growth factor (TBP) beta blocking agent freated buman stem cell compositions which are capable of rapid in vivo reconstitution of the haematopoietic system of a subject.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        melanoma, testicular cancer, lung cancer and brain cancer as well as for
other non-malignant bacematopoietic diseases, e.g. thrombocytopaenia.
Sequences of the invention are also used in gene therapy. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                        including ovarian cancer, thymomas, germ cell tumours, multiple myeloma,
                                                                        New human stem cell composition, useful for freating various cancers, e.g. ovarian cancer, melanoma, festicular cancer, lung cancer or brain cancer, as well as for other non-malignant hematopoietic diseases, e.g.
                                                                                                                                                                                                                                                                      The composition comprises a cell population enriched for human stem-
cells, the stem cells freated ox vivo with an oliqumen antisense to
70F beta, where the viability and differentiation state of the stem
cells is preserved in culture longer than stem cells not subjected
to 19F-beta antisense treatment. The human stem cell composition is
useful for promoting the rapid engratument of long term repopulating
harmatopoietic stem cells (LTE-HSC) following in vivo administration
and tacklifate the rapid profileration of LTE-HSC in vitro, the HSC
containing cell population is useful to treating various cancers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence is TGP beta type 11 receptor antisense oligonucleofide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer used to amplity the signal peptide of LAMP 1 protein
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100.0%; Pred, No. 3.7;
ive 0; Mismatches 0; Indels
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Luiten R, Stroobant V, Thielemans K,
                                                                                                                                                                           Claim 5; Page 47; Supp; English.
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Hest Local Similarity
                                   WPI; 2002 195761/25.
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The present invention relates to MASE A+ (tumour associated gene-
ptodact) human lowkoyte antiqen (HLA) class II-binding postides (see
AARO2566-H02595, and AABO2843-B02637). These postides are presented to lecils in the context of HLA class II molecules. The peptides stimulate the activity and proliteration of CD4+T tymphocytes. The invention also includes nucleotide sequences encoding MAXE+A peptides (see AAA37928 and AAA37948+A37940). The peptides and nucleotide sequences can be used to create antibodies against the MAGE-A+ peptides, the antibodies.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New MAGE-A3 class II binding peptides, useful to diagnose and freat
function, are fragments of MAGE A3 which bind to and are presented to T
lymphocytes by human leukocyte antiqen class II molecules
                                                                                                                                                                                    diseases, particularly cancers (e.g. melanoma, osteosarcoma, leukemia and various forms of carchoma). The peptides are also used to produce specific antibodies. Detection of of the peptides, e.g. in binding assays, particularly with antibodies, is used for diagnosis of such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MAGETA: HLA class II; human leukocyte antiden; antibody; vaccine; cancer; human; tumour associated gene product; PCR primer; ss.
                                                                     PCR primers AAX26980 81 were used to amplify DNA encoding the signal peptide of the LAMP+1 profein. The specificin describes a MAGE-3 tumour associated gene. Peptides that bind human leucocyte antigen (HLA) class II molecules can be derived from the MAGE-4 protein.
                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                These peptides and autologous CD4+ cells that bind to a complex of MAGE-3 peptide and HLA Class II, are used to treat MAGE-3 related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chaux P. Stroobant V, Boon-Faileur T, Van Der Bruggen P;
Schultz ES, Van Snick J, Lethe B, Thielemans K, Corthals J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer used in the construction of pMGF sig.MAGE-A3.LAMP-1.
                                                                                                                                                                                                                                                                                                                                                                                  ::
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                                                                                                                                                                                                                                                                                                                                          Length 201
                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                          Score 14.8; DB 20;
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                                                                                                                                                                                                                                                                                                                                                            Pred. No. 26:03;
                                                                                                                                                                                                                                                                                                     Sequence 20 BP; 1 A; 12 C; 6 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 6: Page 46; 119pp; English.
                                 Example 5: Page 48: 88pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (LUDW-) LUDWIG INST CANCER RES (UYVP-) UNIV VRIJE BRUSSEL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAA37934 Standard; DNA; 20 BP.
                                                                                                                                                                                                                                                                                                                                      70.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99WO-0521230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98US-0166448
                                                                                                                                                                                                                                                                                                                                                                                                                 * PAPATGGAAAGPOOTGGTC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                         * 252ATGGCGGGTCCTCGGC 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18 ARC-2000 (first entry)
                                                                                                                                                                                                                                                                                                                                                                              16; Conservative
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                                                                                                                                                                                                                                                                                                                                        Query Matsh
Best Losal Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15 SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-APR-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Heirman C;
molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chaux P.
                                                                                                                                                                                                                                                                 diseases.
                                                                                                                                                                  MAGE:
                                                                                                                                                                                                                                                                                                                                                                              Matches
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peptides and nucleotide sequences can be used to create a vaccine. The peptides are used to diamnose or treat a disorder characterized by expression of MANE-4 particularly cancer. The methods can also be used in the diamnosis of disorders associated with MAGE-4 expression. Included in the invention are other human tumour antiques (see AARU2596-R02637),
                                                                                                   and PCR primers used in the course of the invention (see AAA37929-A37937 and AAA37941-A37942).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bundan: 5' EST: expressed sequence taq: secreted protein: CDNA isolation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         used to obtain full length cONAs and genomic DNAs. 5' ESIs are also used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          In diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequences usually correspond mainly to the 3 untranslated region (UIR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cDNA sequences have been obtained, the full 5, UTR is rarely included.
5' ESTS are derived from mKNAS with intact 5' ends and can therefore be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The present sequence is one of a large number of 5' ESI's derived from makNAs encoding secreted profeins. No ORF has yet been conclusively identified within the present sequence. The 5' ESI's were proported from total luman KNAs or bolyAs RNAs derived from to different issues. ESI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        libraries. Such ESIs are not well suited for isolating cDNA sequences derived from the 5° ands of mKNAs and even in those cases where longer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the makNA because they are often obtained from officerdt primed eDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                :
0
                                                                                                                                                                                                     Score 14.8; DB 21; Length 20;
Pred. No. 2e+03;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human secreted protein 5' EST, SEQ 1D NO: 15648.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Giordano J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 50 BP; 9 A; 11 C; 26 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; SEQ 1D 15633; 71pp + CD ROM; English.
                                                                                                                                                               Sequence 20 BP; 1 A; 12 C; 6 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     qene therapy; chromosome mapping; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Duclert A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expression and secretion vectors.
                                                                                                                                                                                                                                                                                                                                                                                                                                  AACT1563 standard; cDNA; 50 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-FEB-2000; Z000EP-0200510.
                                                                                                                                                                                                       70.58;
                                                                                                                                                                                                                             88.48;
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                                                                                                                                                                                                                                                                                    3 CONTAINSCRADOPPORTER 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   00-001-2000 (filest entry)
                                                                                                                                                                                                                                                16; Conservative
                                                                                                                                                                                                                                                                                                           Dumas Milne Edwards J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2000-500381/45
                                                                                                                                                                                                                               Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CEST ) CENSET
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                                                                                                                                                                                                       Query Match
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70.5%; Score 14.8; DB z1; Length 50; 88.9%; Pred. No. 2e+04;

Pred. No. 20:04;

Best Local Similarity

Query Match

RESULT 6

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The test sequences may also be randomly denorated. DAM:protein interaction may be used for screening purposes, e.g. the Herpes Simplex Vitus (HSV) origin of replication and UL9 (see AAQ69851-52, AAQ69865 and AAQ6991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    binds the test sequence, the equilibrium of the DNA:profein complexes is disturbed, generating changes in the concentration of free DNA probeome application of this method is to encaryotic general transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Libraries of synthetic of biological epds, for their ability to bind DNA test sequences. The assay is versatile in that any number of test sequences can be fested by placing the test sequence adjacent to a defined protein-binding sequence. Finding of mols, to these test sequences changes the binding characteristics of the protein mol. To its cognate binding sequence. When such a mol.
    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Saps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tactors (e.g. TELID), where the target region is typically selected from INA sequences adjacent to the binding site for the energyoic franscription factor. Innerons exemplary test sequences are given the sequences in AAQ69251-731 and AAQ69850 correspond to promoter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;;
;;
                                                                                                                                                                                                                                                                                                                                   DNA protein binding assay; test sequence; screening sequence; promoter; target; TATA box; Herpes Simplex Virus; HSV; origin of replication; UL9; transcription factor; TFIID; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A DNA protein/binding assay is provided, useful for screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       67.6%; Score 14.2; DR 15; Length 46; 84.2%; Pred. No. 3.7e+03; ive 0; Mismatches 3; Indels 0
                                                                                                                                                                                                                                                                                                Human gene PRB4L for proline-rich protein Gl target region.
  Indols
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence directed DNA-binding molecules - useful in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 46 BP; 7 A; 14 C; 10 G; 15 E; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fry KE,
  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pharmaceuticals and as molecular reagents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Andrews BM, Cantor CR, Edwards CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 28: Page 446; 587pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (GENE-) GENELABS TECHNOLOGIES INC.
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C
                                                                                                                                                                            AAQ69519 standard; DNA; 46 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9405-0124946.
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                                    4 CCA EGGCAGCCCCCGTCG 21
                                                         41 C'ALGGAGAGATO'GCG 24
                                                                                                                                                                                                                                                       of MAR-1995 (first entry)
Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WP1; 1994 244711/28.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23 FPBC 1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20 - DEC - 1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17 - SEP 1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        W09414980 - A.
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                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic.
                                                                                                                                                                                                                   AAQ69519;
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binds sequence specifically to a target region, where, when the small molecule is bound to the target region; it is adjacent to, but not everlapping by more than 4 bp, a binding site for a DNA binding protein. The small molecule is added at a concentration effective to after the binding of the LNA binding protein, pret, TPFH, to its binding site on the duplex DNA. The binding of the small molecule may inhibit or enhance the binding of the DNA binding protein to its binding site. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              to be used for screening sequence specific, or preferential, UNA binding proteins that reconnise almost any possible sequence (see also AA1495.9)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The design of these duplex DNA's allows a single DNA; profein interaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              as target regions in the method of the invention. The method for aftering the binding characteristics of a DNA binding profein to duplox DNA comprises contacting the duplox DNA with a small melecule which
                                                                                                                                                                                           Pupplex DNA; target region; binding characteristic; DNA binding protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         specific DNA sequence, e.g. cancer, or inherited genetic disorders etc.
                                                                                                                                                                                                                 FEID: transcription factor; binding site; inhibition; enhance; PMCG,
inherited genetic disorder; cancer; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The sequences given in AAT64714 4412 represent duplex DNA's which aet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the method is suitable for screening large biological or chemical
libratios and allows determination of sequence specific and relative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA - by attaching specific small cpd. to target region close to the protein's binding site, useful in freatment of vital disease, cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    affinities of known DNA-binding agents for different DNA sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Altering binding characteristics of DNA binding proteins to duplex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   therapeutic agents for freatment of any disease which involves a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      :,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               compounds isolated using this method are potentially useful as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 14.2; Div 18; Length 46;
Pred, No. 3.7e+03;
0; Mismatches 4; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Turin LM;
                                                                                                                                                 Human proline rich protein Gl gene TELLD binding site.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Canton CR, Edwards CA, Fry KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 6; Column 235 236; 264pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GENE ) GENELARS TETHNOLOGIES INC.
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:
                      AAT6 9981 standard; DNA; 46 BP.
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                                                                                                       17 MAK-1997 (Tirst cutry)
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                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                     27 - JUN - 1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27 JUN-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         13433
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                                                                                                                                                                                                                                                                                                                      DS5578444 - A.
                                                                                                                                                                                                                                                                                                                                                              26 - NOV - 1996.
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                                                               AA16 4981;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23 DEC:
AAT6 4981 Zc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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·· : ABKB2760 standard: DNA; 46 BP.

ABK8276070

RESULT X

(first entry)

27 AUG-2002

ABK827601

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test sequences that are used in the method of the invention of determining the DNA sequence preference of a DNA-binding molecule. The method comprises: (i) adding a test molecule and a DNA-binding protein to a mixture of duplex DNA test oligonucleotides, each of the test.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  olinonucleotides having a test sequence adjacent to a screening sequence, where the screening sequence binds to the DNA-binding protein with a binding affinity that is independent of the DNA sequence of the test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      includes several test sequences: (ii) incubating the test molecule, the mixture of duplex DNA test oligonucleofides and the DNA-binding protein for a time sufficient to permit binding of the rest molecule to test
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (vii) sequencing the isolated test oliqonucleotides. Test sequences AAX17001-X17481 and AAX17600 correspond to promoter targets for human genes and test sequences AAX17482-X17599 correspond to promoter targets
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequences in the duplex DNA; (iii) separating unbound test off-connected from test oligonucleotides bound to binding protein; (iv) amplifying the unbound test oligonucleotides; (v) repeating steps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ii) to (iv); (vi) isolating the amplified test oligonucleotides; and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sdpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequences AAX17001 to AAX17600 represent specifically claimed target
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sequence, and where the mixture of duplex DNA test oligonucleofides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Determination of DNA sequence preference of a DNA binding molecule
                                                                                                                                                                                                                                                                                                         Test sequence from human gene PRB3L for proline-rich protein GL
                                                                                                                                                                                                                                                                                                                                                                           Test sequence: DNA-binding molecule; screening sequence; human; nucleic acid amplification; target; viral; ds.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  based on inhibition of binding of profein to oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Further LM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Septence 46 BP; 7 A; 14 C; 10 G; 15 T; U other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Andrews BM, Cantor CR, Edwards CA, Fry KE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 3; Columns 237-238; 270pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sequence attached to test sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GENE-) GENELARS FECHINOLOGIES INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               930S-0123936.
950S-0475228.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9508-0475228
                                                                          AAX17259 standard; DNA; 46
                                                                                                                                                                                                                              (first entry)
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res 16; conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WP1: 1999-152755/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              viral genes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Home, sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   07 JHN-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Z7 - JPN - 1994;
Z7 - JPN - 1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17 SEP-1993;
07-JUN-1995;
                                                                                                                                                                                                                          06-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24 1-803-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0.9 FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                    AAX17269;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
RESULT 7
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in a duplex decoxyribonucleic acid (DNA) template (T1) comprising contacting (T1) with a binding agent comprising at least one small duplex binding molecule (F2) coupled to at least one other small duplex-binding molecule that binds to a non-overlapping region of target sequence (TS). The method is useful for inhibiting transcription of a range of disease-related genes for treating infections (by viruses, including human immunodeliciency virus, bacteria, fund, profozod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a method of decreasing transcriptional activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Decreasing transcriptional activity of genes for treating infections or
cancer, by administration of an agent that binds to two non-overlapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  without affecting transcription of cellular genes regulated by the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABK82492-ABK83155 represent DNA binding molecule test sequences used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    neurological, psychiatric, dermatological, ophthalmological, muscule-skeletal, genetic or urogenital disorders. The method provides sequence-specific inhibition of transcription of pathological genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and parasites), cancer, cardioväscular, respiratory, castrointestinal, endecrine/metaholic, theumatic/immunological, haematological,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sdeto to
                                                                                                                                                                                                                                                            intection; homan immunodeficiency virus; HIV; parasite; cancer;
cardiovascular; resp ratory; qastrointestinal; endocrine; metabolie;
rheumatic; immunolog cal; haematological; neurological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transcription factor, and can be applied to regulation of any gene.
                                                                                                                                                                                                                                                                                                                                                                              psychiatric: dermato ogical; ophthalmological; musculo-skeletal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  67.6%; Score 14.2; DB 24; Length 46; B4.2%; Pred. No. 3.7e+03; Live 0; Mismatches 3; Indels (
                                                                                                                                                                                                                        DNA binding molecule screening, inhibition of transcription;
                                                                                                                                             DNA binding molecule screening method test sequence #269.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Edwards 'A, Canton CR, Andrews BM, Turin LM, Fry KE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 46 BP; 7 A; 14 C; 10 G; 15 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 15; SEQ 1D No 269; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GENE ) GENELARS IECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           910S-0724618.
920S-0996783.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             390S 0354947.
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                                                                                                                                                                                                                                                                                                                                                                                                                 modemital disorder; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        regions of the gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WP1; Z002-442819/47.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IS6 484208-PT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15 JUL 1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-10EC 1993 CO 2010 INDICATE OF THE PROPERTY 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17 SEP 1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              119191
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetie.
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                          The present invention provides the protein and codina sequences of novel binds and rat type 11 phosphodiosterases (PPELI). These are useful for studying intracellular signal transduction mechanisms, in screening highly-selective inhibitors as drugs for treating diseases associated with the cusymes and for the identification or selective in the present infiltitory action against malliple type phosphodiesterases. The present sequence is a PCR primer for a coding sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  edpe
                                                                             Type II phosphodiesterase coding sequence PCR primer SEQ ID No; 24
                                                                                                 Human: type II phosphodiesterase: PDELL: signal transduction; rat; selective inhibition; DCR primer: ss.
                                                                                                                                                                                                                                                                                                                              Type II phosphodiesterases and encoded genes with activity of Approlygial gyelfic nucleofides, useful for studying intracellular signal transduction mechanism and in screening highly selective inhibitors as drugs with superior efficacy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Zea mays: maize: pathoacuesis related class 1; PR 1; promoter: regulation: expression; disease resistance; genetic monitorlation; tobacco mesaic virus; cucumber mesaic virus; rinaspot virus; necrosis virus; maize dwart virus; viroid; bacterial; insect; nematode; fundal; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels (i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Zea mays pathodenesis related class I PCR primer SEQ ID No; 35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          65.7%; Score 14.8; DB 22; Length 18;
88.2%; Pred. No. 5.6e+03;
                                                                                                                                                                                                                                                                                     oda K, Michibata H;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 18 BP; 3 A; 7 C; 5 G; 3 1; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                      Example 3; Page 61; 77pp; Japanese.
                                                                                                                                                                                                                                                                                     Kotera J,
         AAH46728 standard; DNA; 18 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZZ1215 standard; DNA; 23 BP.
                                                                                                                                                                                                       22 DEC-2000; 2000Wo JP09118.
                                                                                                                                                                                                                             99.JP - 0364866
                                                                                                                                                                                                                                       01-JUN-2000; Z000JP 0163875.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8H.2%;
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                                                      19-SEP 2001 (first entry)
                                                                                                                                                                                                                                                              (TANA ) TANABE SELYAKU CO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 GAPPANDGCAGCCCC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 GATCCATGGCAGCCTCC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15; Conservative
                                                                                                                                                                                                                                                                                                         MP1; 2001-418074/44.
                                                                                                                                                                                                                                                                                   mori K, Yuasa K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bost Local Similarity
                                                                                                                                                          W02001464 86 - A1.
                                                                                                                                                                                                                             22 DEC 1999;
                                                                                                                                     Unidentitied.
                                                                                                                                                                                 1007 - NDF - 87
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AA221215;
                              AAB44.728;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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                                                                                                   Human
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AAH46728
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heterologous genes (including genes for disease resistance) in plants, especially dicots, or monocots i.e. maize. The promoters are useful for the genetic manipulation of plants to exhibit specific phenotypes, particularly enhanced resistance to pathogen caused disease. Pathogens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          include viruses such as tobacco or curumber mosaic virus, ringspot virus, necrosis virus, and maize dwarf virus, and virolds, barteria, thseeks, nematodes and fundi. The present sequence represents a letk primer used for amplifying maize PR-1 proteins used in an example from the present invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New promoter sequences from pathogenesis related genes of maize
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   65.7%; Score 14.8; DB 20; Length 24; BB.2%; Prod. No. 5.50(04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Truncated cellulase gene Tok78.1 amplitying primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : 7
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9. Mismatches
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                                                                                                                                                                                                                                                                                  (PION ) PLONERE HI BRED INT INC
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                                                                                                                                                                                                                        980% 0079648
                                                                                                                               110x080 0M$5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (Tirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                5 CATGGGGGGGGGGGGG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23 CALIGICANOSPOS 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAX55666 standard; DNA;
                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 1999 527621/44
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
WO 934 48 19 AT
                                                                                                                            11 FEB 1999;
                                                                                                                                                                                       26 FEB-1998;
                                                                                                                                                                                                                        27 - MAR - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15 SEP 1958;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19 SEP-1397;
                                                          02 SEP 1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   . 9891 NUL 999.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetie.
                                                                                                                                                                                                                                                                                                                                                 Crano VC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         proteinases of native thermophilic and alkalinophilic origin, comprising the fruncated sequences Cel B5, Cel B4/5, Cel E1, Cel E1/2, Cel 1/2/3, Cel 6 or Cel E3/85, or a stability region from one of the defined full-length sequences, or functional equivalents. Cel B5 extends from amino acid A1011 to P1424 or K1425 or N1426, and Cel B4/5 extends from amino acid K635 to N1426 in the sequence shown in AAY13492; Cel E1 extends from amino acid W1939 to D481, Cel E6 extends from Y89 to G4812, Cel E1/2/3 extends from Y89 to G4812, Cel E6 extends from amino acid V1233 to K1751 and the stability region extends from amino acid V1233 to the sequence shown in AAY1493; Cel E6/K5 is shown in AAY1494. The new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         materials including cotton-containing tabrics. They are especially useful to preventing redeposition of colorant during stonewashing, and for necessaring the containing th
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a recombinant cellulase active protein free of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              processing of textiles where cellulose breakdown is required. The new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Retrotransposon: mobile genetic element; murine; IRES; encapsidation;
internal ribosome entry site; viral vector; gene therapy; expression;
improvement; dicistronic; polymerase chain reaction; Rattus; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      truncated enzymes show reduced redeposition of dye compared to using
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           enzymes are useful in laundry detergent compositions to prevent or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           isolated DNA contq. internal ribosome entry site or encapsidation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            remove staining, backstaining or graying, for use on cellulosic materials including cotton-containing tabrics. They are especial
                                                                                                                              New formwated cellulase proteins, useful in detergents and for producing 'stonewashed' denim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         65.7%; Score 13.8; DB 20; Length 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2: Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Torrent 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pred. No. 5.6e+03;
0; Mismatches 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (INKM ) INSERM INST NAT SANIE & RECH MEDICALE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 28 BP; 8 A; 10 C; 4 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jacquemond S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    non-truncated cellulase compositions.
                                                                                                                                                                                                                                                                                                                           Disclosure; Page 63; 65pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAI12540 standard; DNA; 29 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      88.2%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 ACCCARGGGAGGGGGG 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5 APPORTUGINACIONES APPORTUGINACIONES APPORTUGINACIONES 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
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WP1; 1999-415404/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W09F-11324 AZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-JAN-1996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAT12540;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA F125 40
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sequence - derived from retrotransposon, providing stable expression of one or more genes, useful in gene therapy vectors

Example 1; Page 29; 40pp; French.

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especially dicots, or monocots i.e. maize. The promoters are useful for
the genetic manipulation of plants to exhibit specific phenotypes,
particularly enhanced resistance to pathogen-caused disease. Pathogens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAZZILM to AAZZILMO represents the nucleotide sequences for promoters isolated from a family of maize (Zea mags) quences encoding publicated (Et.) proteins. The promoters are useful for expressing heterologis are enes (including genes for disease resistance) in plants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           include viruses such as tobacco or cucumber mosaic virus, rinaspot, virus, nectosis virus, and maize dwart virus, and viroids, bacteria, inserts, newatodes and tundi. The present sequence represents a PCM primer used to amplitying maize PR-1 proteins used in an example thom
                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                       region includes an internal ribosome entry site (IRES) which allows expression of both genes. The present sequence is that of a PCR primer used for amplifying the 205-794 fraquent of VL30.
                                                                                                                                        cells). The level of expression from both genes was determined for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Zea mays: malor; pathogenesis-related class 1; PR-1; promoter; controlled on; expression; disease resistance; genetic manipulation; todaceo mosaic virus; recomber mosaic virus; ringspot virus; necrosis virus; maize dwart virus; viroid; bacterial; insert;
                                                                                                                                                              each construct. The best results were obtained from a plasmid comprising nucleotides 380-794 of rat VL30, suggesting that this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New promoter sequences from pathogenesis related genes of maize
                                                               dicistionic cassette neo-VL30-LacZ was under the control of the T7 RNA polymerase promoter (for in vitto expression) of the
Three plasmid constructs were prepared in which different
fradments of the rat VL30 retrotransposon were inserted between
                                                                                                                                                                                                                                                                                                                                                                                                :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zea mays pathogenesis-related class 1 PCR primer SEQ 1D Net26.
                                           a neomycin resistance dene and a lack gene. Expression of the
                                                                                                                extemedalogious early promoter (for expression in eukaryotic
                                                                                                                                                                                                                                                                                                                                             65.7%; Score 13.8; IIR 17; Length 29;
88.2%; Pred. No. 5.6e+03;
tive 0; Mismatches 2; Indexs 0
                                                                                                                                                                                                                                                                                                    Sequence 29 BP; 8 A; 13 C; 6 G; 2 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 1: Fade 46; 86pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nematodes fundal; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (PION ) PURNER HI-BRED INT INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAZZ1205 standard; DNA; 40 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                            1 GACCCATGGGAGGCCCC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7 GOODGARGGAAGGGG 23
                                                                                                                                                                                                                                                                                                                                                                                              Matches 16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 1999-527621/44
                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 - FEB - 1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zea mays.
                                                                                                                                                                                                                                                                                                                                                  Query Match
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AAZ21205/c
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B. LYCHMOTAGYAND B.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New earline p5 functors acid and protein, useful for identifying individual carriers of germ line p5 gene mutations, or for determining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             anti cancer therapies based on \mathfrak{p}54 genetic status and to generate probes to assess changes in stability or expression of \mathfrak{p}53 in different
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to DNA encoding caning p53 protein. The p54 ctMA can be used to isolate different p53 ctMA from higher vertebrate organisms, to generate probes for cytoapertic screening of raning turnouts, to identify tamour-associated mutations of the canine p53 gene, to identify individual carriers of acm line p53 gene mutations and determine breed disposition to p54 dependent cancers, to generate tumour identified mutants for study p54 dependent activities in canine normal and tumour cells, to express p54 protein within in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Canine; p53 protein; tumour-associated mutation; p53-dependent cancer; anti-cancer therapy; reverse transcriptase; RT: PCK primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            monoclonal antibodies that are directed to both conformation specific
                                                                                                                         Sdpt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cell types. Canine p54 protein can be used as an antigen to generate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vitro expression systems, to express p54 protein in prokaryotic and enkaryotic in vivo expression systems, to determine the etticacy of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the efficacy of anti-cancer therapies based on p53 genetic status
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                epitopes and primary epitopes. The present sequence is a reverse transcriptase (RI) PCK primer used to amplify canine p53 cbNA.
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                                                                                Length (0);
                                                                                                                         s copia
                                                                                                                                                                                                                                                                                                                                                                                                                                      Canine p54 cDNA amplitying RT-PCR primer, 57 up/cp53dn.
                                                                           65.7%; Score 14.%; 08.20;
88.2%; Fred. No. 5.6cc03;
Ulve 0; Mismatches 2;
                                  Sequence to BP; 7 A; 8 C; 11 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 33 BP; 4 A; 7 C; 12 G; 3 L; 7 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Fig 1; 20pp; English.
                                                                                                                                                                                                                                                                                                             AAD24612 standard; DNA; 33 BP.
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                                                                                                 Bost Local Similarity 88.2%;
Matches 15; Conservative
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Matches 12; Conservative
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the present invention.
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4 CONTROPONDATION 18

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Maize; acyl-ACP thioesterase; enzyme; eleoyl ACP thioesterase; ofE; FTE; palmiteyl ACP thioesterase; transquie plant; oil; fatty acid; peamoter; requiatory element; transcriptional terminator; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to genes encoding maize acyl ACP thioesterase enzymes. The curymes especially, oleogl ACP thioesterase (OLE) and palmittoyl ACP thioesterase (PTE) can be used to create transgenic plants having allered oil polities. The invention provides a composition comptissing in a 5' to 3' direction: (i) a promoter requisional to measure encoding nucleic acid isolated from maize.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and (iii) a transcriptional terminator. The compositions and plant cell of computished the compositions can be used to produce plant of Laving altered levels of latty acids. The present sequence represents a primer used tot amplifying the materials of N. W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sales to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ment, acyl AMP
useful for, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cowen NM. Folkerts O. Guo L. Rubin Wilson B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  64.8%; Score 14.6; DR 20; Length 44; R0,0%; Prod. No. 6.Rec04; ive 0; Mismatches 4; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            thioesterase coding sequence, and a terminator——useful for
production of plant oil with an altered fatty acid content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Composition comprising a promoter requiatory element,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 43 BP; 8 A; 16 C; 11 G; 8 T; 0 other;
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                                                                                                                                                   Maize PTE Lova amplitying primer
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                                       AAVB0214 standard; DNA; 44 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                   05 MAY 1997;
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                                                                                                                                                                                                                                                                   Synthetic.
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RESULT 15
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ВЪ.

AAF44389 Standard; DNA; 21

KESTILT 17 AAF44389 AAF44389;

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proliteration; tumouriquesis; identification; cancer; PCR primer; hybridisation; probe; cytostatic; mootropic; neuroprotective; antiintlammatory; immunosuppressive; immunostimulant; antiangiogenic; leukaemia; lymphoid maliquancy; neuronal disorder; alial disorder; mastrocytal disorder; hypothalamic disorder; splandular disorder; macrophagal disorder; hypothalamic disorder; stromal disorder; blast coelic disorder; inflammatory disorder; andloquale;
Human: tumour; diagnosis; neoplastic disease; neoplastic cell arowth;
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990S-0141037.
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                                                                                                                                  2000Wo-US00476
                                                                immunologic disorder; ss.
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                                                                                Homo sapiens.
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ROY MA; Hillan KJ, Baker KP, Goddard A, Gurney AL, Wood WI; WPI: 2000-572270/54. Ashkenazi AJ, Watanabe CK,

05-JAN 2000; 2000WO-US00219.

(GEIH) GENENTECH INC

99WO-0830911

19991

20 DEC

Thirty PRO polynucleotides encoding PRO polypeptides, useful in the treatment, diagnosis and prevention of cancer $\dot{\tau}$

Example 23; Page 133; 286pp; English.

leukaemids and lymphoid malignancies, other disorders such as neuronal, quial, astrocytal, hypothalamic and other glandular, macrophagal, epithelial, strond and blastocoelic disorders, and inflammaforry, audioperic and immunological disorders, and increasent per primers and hybridisation pobes used in the isolation of the human processivers. AACS8167 to AACS8169 represent human anti tumour compounds maybe used to treat various conditions, including these characterisad by everexpression and/or activation of the amplified PFO genes. Exemplary conditions or disorders to be treated with such antibodies and other compounds include benian or malianant tomours collected and other compounds include benian or malianant tomours collected in the prost are paracreatic, luma, valva, thyroid, hepatic catchnowns, sarcomas, qlioblastemas, and various head and neck tumours). one of the human PRO proteins designated PRO212, PRO290, PRO341, PRO535, PRO417, PRO340, PRO809, PRO809, PRO848, PRO943, PRO9005, PRO1009, PRO10030, PRO1007, PRO1107, PRO1111, PRO1153, PRO1082, PRO1084, PRO1111, PRO1153, PRO2094, PRO11147, PRO1110, PRO2094, PRO11147, PRO1110, PRO2094, PRO41145 or PRO2198. PRO antagonists can be used to inhibit tumour cell growth. The PRO polypeptides and nucleotides are useful in the PMo polynucleotide and protein sequences given in the exemplification of treatment, diagnosis and prevention of cancer. The antibodies and other The present invention describes an isolated antibody that binds to the present invention.

Godowski P.J.;

Baker KP. Botstein D. Desnoyers L. Eafon Fond S. Gether H. Gerrissen ME. Goddard A. Correy Al. May Javin LJ. Napier MA. For L. Warti IA. Tumas D. Watanabe CK. Williams PM.

Ashkenazi AJ, Baker KP,

Berrara N. B Grimaldi CJ.

Stewart IA.

Zhana Z:

ROY MA.

Eaton LL:

Z 3

Factoria Wood 1

Sequence 21 BP; 5 A; 11 C; 3 G; 2 T; 0 other;

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Score 13.4; DB 21; Length 21; Pred. No. 8.4e-03; Dred. No. B. Holds C. 1; Indels C.
  64.88,
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                              Conservative
 Query Match
Rest Local Similarity
                              Matches
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can be used for targeted delivery of bioactive molecules, such as toxins, radiolabels or antibodies, that cause cell death. FRO nucleofide sequences, and their tragments, can be used as hybridisation probes, in

proteins. The PRO proteins have eytostatic activity. The PRO proteins

the present invention describes human secreted and transmembrane PRO

Sxample 17c: Page 540; 935pp: English.

PRO polynucleotides used to produce polypeptides used to target bioactive molecules such as toxins, radiolabels or antibodies, to specific cells, to cause targeted cell death.

WPT: 2001-032150/04.

and DNA. They may also be used to produce transaemic animals which are used to develop and screen therapeutically useful readents. The PRO nucleotide and protein sequence can be used for tissue typing and in chromosomal and gene mapping, and in the generation of anti-sense ENA

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ACCCATGGCAGCCCC 16
                                    * ACCAATGGGAGGGG 17
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cell death, cancer, chromosomal mapping, gene mapping, tissue typing,
diagnostic assay, PCk primer, hybridisation, probe, ss.
                                                Human: secreted and transmembrane protein; PRO; cytostatic;
                                  Human PR-290 hybridisation probe SEQ 1D NO:428.
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2000W0+LS04414,
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2000W0+LS0504914,
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0-0800376.
0-0803565.
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99US-0143048.
99US-0144758.
99US-0145698.
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15-MAR-2000;
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24-FEB-2000;
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                  AAP44220 to AAF4470 represent PCR primers and hybridisation probes used in the isolation of buman PRO sequences, AAF44087 to AAF4269 and AAB65154 to AAB65800 represent buman PRO polynucleotide and protein
freating cancer. Anti-PRO antibodies can be used in diagnostic assays.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human fumor necrosis factor receptor like proteins useful for diaquosis, prevention and froatment of disease states associated with aberrant cell survival such as autoimmune disease and theumatoid
                                                                                                                                                                                                                                                                                                                                                     Sales
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The present sequence is that of a 5' PCR primer comprising an Need site followed by 14 nucleotides complementary to the N terminal coding sequence of the extracted and element of IRII (see AAY5879), novel human tumour neerosis factor receptor like profess. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       amplified IRII cDNA was cloned into vector poEGO for expression of mature IRII in Escherichia coli. The invention provides IRII,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (see AAY95879-81), vectors, host cells and recombinant methods for
their production, a method for screening for agonists and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mainre TR11 in Escherichia coli. The invention provides TR11,
TR11SVI and TR11SV2 nucleic acids (see AAA50404 06) and proteins
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          treatment, diagnosis and prevention of disease states associated with aberrant cell survival, immonodeficioney and autoimmune
                                                                                                                                  sequences given in the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                     ·.
                                                                                                                                                                                                                                                                                Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRIL: human; tumour necrosis factor receptor-like protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polypeptides, antibodies, agonists and antagonists in the
                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human TNF receptor like protein TRII cDNA 5' PCR primer.
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                                                                                                                                                                                                                                                                         64.8%; Score 14.4; DB 22;
93.3%; Pred. No. 8.4e+03;
                                                                                                                                                                                                       Sequence 21 BP: 5 A: 11 C: 3 G: 2 T: 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 NoV - 2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  24 - FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MAY - 14444;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3111, 1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               41 AUG 2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 arthritis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA5.0.109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ruben SM,
                                                                                                                                                                                                                                                                                Ouery March
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA50309
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63.8%; Score 13.4; DR 21; Length 22;

Sequence 22 BP: 3 A; 12 C; 6 G; 1 T; 0 other;

Otter y March

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surgery, they can also be used to from hourt affacks, strokes, Addison's
disease, bacmolytic anaemia, theumatoid arthitis, Goodpastures syndrome,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      or draft versus host disease, inflammatory conditions, isolaemia reportusion injury, complement medicale hypotracute rejection, nephritis, cytokine ar chemokine induced functinjury, inflammatory bowel disease, chohn's disease, hypotrproliterative diseates, or intections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GLIR; growth; differentiation; cell death; immune deficiency disorder; biggerses syndrome; HVV SCHIP Wiskott Abhrich disorder; anormical Stiff Man syndrome; arthribis; multiple selectoris; deabeles; PVR pimer; Alzheimer's disease; Parkinson's disease; SS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           necrosis factor receptor like protein (TRI) receptor:AAX37762)
extracellular domain uncleotide sequence. The invention relates to TRII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    syndrome, systemic lupus crythematosus, Guillain Barre syndrome, insulin
dependent diabetes mellitus or autoimmune inflammatory eye disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             aberrant cell survival. They can be used for treating immune deliciency disorders, Digeorge syndrome, HIV infection, sezere combined immunodeliciency (SCID), Wiskott Aldrich disorder, blood coaqulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anaphylaxis, hypersensitivity to an antigenic molecule, organ rejection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                qene (GITK). TKIL, TKILSVI and TKILSV2 polypoptides may be involved in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                receptor and its splice variants show homology to the murine alucecorficoid induced tumour nectosis factor receptor family related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     and two splice variants TRIISVI and TRIISVZ. The nucleotide sequences were determined by sequencing cloned conns AAX 47765, 237766, The IRII
                                                        Selection (Selection)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tument necrosis Lactor receptor like protein; IRLE TELLSVE; TRIBSVE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antaqonists can be used for freating a disease state associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCR primer for amplification of TRH receptor extraeedlular domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the requiation of cell type specific receptor mediated cell growth.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New fumons necrosis factor receptor like polypoptides used to, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Grave's disease, multiple selenosis, myasthenia quavis, Stiff Man
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                differentiation, and ultimately, cell death. They can be used for
serecuing for agonists/antagonists. The polypeptides, agonists of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primers AAZ 4776.7 2 47768 are used to amplity the burnan fumour
                                                             ÷
                                                             Indels
                                                  <u>..</u>
     8,40003;
                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example to Page 79: 167pp; English.
           Prod
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA237767 standard; cDNA; 22 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98WO US22085.
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44,5%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9708 0063212.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of PEB 2000 (first entry)
                                                             Conservative
                                                                                                                                                                                                                                                                             ALTERNATION AND A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 intlammatory condition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              freat Digeorge syndrome
                                                                                                                                                                  THE STATE OF STATE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WP1; 2000 061922/05.
     Mest Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ruben SM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-00T T997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bome sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 (0.1 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W09920758 A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-APR 1999.
                                                             --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAZ 37767;
                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESHLT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA2 47767
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NPRS: Non-Tibosomal peptide synthetase; adenylation domain; A domain;

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subtilis SLIA'B qene A domain PCR primer SEQ ID No; 35.

26.JAN-2001 (first entry)

AAA47994;

AAA97994 Standard; DNA; 23 BP

RESULT 21 AAA9799476

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4 CCATGGCAGPCCCCGTCG 21

PCR primer; antibiof's; immunosuppressant; cytostatic; antivinal; antibelminthie; fund cidal; STA-B dene; ss.

Racillus surtillis.

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C
They can also be used to repair, replace, or protect tissue damaged by concentral defects, framma, age, disease, surgety, including cosmetic plastic surgery, tibrosis, reperfusion injury, peripheral nerve injuries, neuropathies, and central nervous system disease (e.g. Alzheimer's neuropathies, parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome). The products can also be used for detection, diagnosis and prognosis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Maire: acyl-ACP thioesterase; enzyme; oleoyl-ACP thioesterase; OTE; PTE; palmitoyl-ACP thioesterase; transgenic plant; oil; fatty acid; promoter; requiatory element; transcriptional terminator; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to genes encoding maize acyl-ACP thioesterase enzymes. The enzymes especially, oleoyl-ACP thioesterase (OTE) and pubmitoyl-ACP thioesterase (PTE) can be used to create transqueic plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          baving altered oil profiles. The invention provides a composition comprising in a 5 to 3 direction: (i) a promoter required telement. (ii) an anyl-ACP thioesterase encoding nurlour acid isolated from malze, and (iii) a transcriptional terminator. The compositions and plant cell of compositions the compositions can be used to produce plant oil having altered levels of fatty acids. The present sequence represents a primer used for amplifying the malze PTB gate.
                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Composition comprising a promoter regulatory element, acyl-ACP thiowsterase coding sequence, and a terminator - useful for, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                      0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cowen NM, Folkerts O, Ono L, Rubin-Wilson B;
                                                                                                                                                                                                                                                                                                                                       63.8%; Score 13.4; DB 21; Length 22; 93.3%; Pred, No. 8.4e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        production of plant oil with an altered fatty acid content.
                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                              Score 15.4.
Pred. No. 8.4e+03;
                                                                                                                                                                                                                                                                          Sequence 22 BP; 4 A; 12 C; 6 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 19 BP; 2 A; 10 C; 4 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                      0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 7; Page 132; 179pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Maize FTE gene amplitying primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAV8:220 Standard; DNA; 19 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (DOW: ) DOW AGROSCHENCES LLC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9705-0045827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 98WO-US08097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      02 MAR-1999 (tirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                  14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       * COCATGGGAGGGGC 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       * COCATGGCAGGCGC 17
                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI: 1999-034732/04.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W09850569-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05 - MAY - 1 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22 AFR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Armstrong K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-N:V-1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAVBU220;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zea mays.
                                                                                                                                                                                                                                                                                                                                                  Ouery Mateh
                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT Zo
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This invention describes a novel method for the targeted non-ribosomal synthesis of peptides (1) of required structure, comprising alterina one or more A (adenylation) domain-encoding DNA segments (11) that encodes a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 non-ribosonal popular, research one system may try that the captures of the end of the e
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immunosuppressants, using non-ribosomal peptide synthase with targeted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :,
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83.3%; Pred, No. 1e-04;
ive 0; Mismatches 3; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Non-ribosomal synthesis of peptides, e.g. antibiotics or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stachelhaus T, Mootz H, Konz D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 23 BB 7 A; 4 C; 8 G; 4 L; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modifications in adenylation domains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 5; Page 44; 52pp; German.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AA135014 standard; DNA: 25 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28 FEB-2000; ZeouWo EP01652;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    39DE-1009146.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4 CCATGGCAGCCCCGFCG 21
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Matches 15, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SIACHELHAUS T.
MOOTZ H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (MARAZ) MARAHIFL M A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI: 2000-572182/54.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (KONZZ) KONZ D.
                                                                                                                                                                                                                                                                                                                                                                            W-200052152-A1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-MAR-1949:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Marahiel MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                           08 SEP-2000.
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3
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Gaps

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3; Indels

62.9%; Score 14.2; DB 20; Length 19;

Pred. No. le-04;

84. +8

Best Local Similarity

Matches

Query Match

15; Conservative

0; Mismatches

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31 cm T 1990;
                                                                                                                                                                                                                                         Matches
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                                                                                                                                                                                                                                                                                                          RESULT 24
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                                                                                                                                                                                                                                                                                                                  construction of parts of vectors which encode a chimeric protein which comprises fibronectin and TIMP-1 (tissue inhibitor of metalloproteases-1). The protein is useful to target TIMP-1 to the extracellular matrix (ECM), when it may be needed there e.g. to prevent metastasis of cancerous cells, other therapeutic proteins may be used instead of TIMP-1 e.g. protein A immunoglobulin G binding
                                                                           polymerase chain reaction: PCR; primer; chimera; therapy; metastasis; ECM; extracellular matrix; fargetina; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                     o; daps
                                                                   TIMP: tissue inhibitor of metalloprotease; basal Jamina; breakdown;
                                                                                                                                                                                                                                                 Chimeric protein comprising heterologous protein inserted into
fibronectin , can be used to target proteins to the extracellular
                                                                                                                                                                                                                                                                                                          AAT 35014: [3502] are PCR primers used in the amplification and
                                                                                                                                                                                                                                                                                                                                                                                                                  62.9%; Score 13.2; DB-17; Length 25; 83.3%; Pred, No. 1e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nuc profein; nucleobindin; antibody; autoimmune disease;
augmenting factor; DNA binding; P55; primer; PCR; probe;
                                               TIMP 1/fibromectin chimeric protein construction primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                     · ·
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 25 BP; 6 A; 9 C; 7 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        p55 mouse Nuc protein Noterminal primer.
                                                                                                                                                                                                           (KAGG ) KAGAKU GLUUTSUCHO CHOKAN KANBO.
                                                                                                                                                                                                                                                                                       Example 1; Page 4; 7pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAQ58543 standard; DNA; 27 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polymerase chain reaction; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            91.1P-0349406.
                                                                                                                                                                   94JP-0008248.
                                                                                                                                                                                       94.JP-0008238.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 GAPPPARGGPAGPPPPP 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                              WPI; 1996 416414/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            40 - OCT [1991];
                                                                                                                                                                                       28-JAN 1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IP06025292 A.
                                                                                                                             JP08140677 - A
                                                                                                                                                                   28 - JAN - 1994;
                           16-001-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-SEP 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.1 PER- 1994.
                                                                                                                                                04 - JUN - 1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                     15;
                                                                                                          Synthetie.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAUSB543;
          AAT 45014;
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                                                                                                                                                                                                                                                                      matrix
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Boverse primer 4005E contains sequences complementary to morelectives 1109 11107 of p8051 (see AAVVZ61), an El defected adenovirus (AA) generalis, and also contains a 5° BSD51 Site. It was used with forward epigner 4005E (see AAVVZ64), which is complementary to nucleotides 12551 1271 of p80611, in the 1998 amplification of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sdee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            comparise sequences provided
                                                                                                                                                                                                                                                                                                                                                                                                                                  protein is from human or mouse tissue or cells, esp. Tymphocytes.
Anti-nuc protein antibodies may be used to treat diseases involving
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New adenocited recombinant plasmid(s)—comprise sequences provided for expression of large foreign DNA fragments, used for, e.g. gene
                                                                                                                                                                                                                                                             and antibodies to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   :.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              prodn. of large amis, of DNA binding protein, e.g. autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ademostrus 5; Ad5; vector; gene therapy; DNA polymerase; PCR;
                                                                                                                                                                                                                                                                                        it, useful for diagnosis and freatment of autoimmune disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62.9%; Score 14.2; DB 15; Length 27;
                                                                                                                                                                                                                                                                                                                                                                                                    Nucleotein binds DNA and auquents anti-DNA antibody produ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hartigan of Connor Ddg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 27 BP; 4 A; 10 C; 10 G; 4 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred, No. 1e.04;
0; Mismatches
                                                                                                                                                                                                                                                           Anti-DNA antibody produ, augmenting factor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 5a; Page 44; 13app; English.
                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 7: 29pp; Japanese.
                                                                                   GARUZ) GARHEN E.
(MITK.) MITSUL FOALSU CHEM INC.
(YOSH-) YOSHLYUKI KANAL GH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chamberlain 38.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    therapy of genetic disease(s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VA_RNA FEVETSE primer 4006E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  H 4. 4%;
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90.HE 0294055
                             90.JF 0 424 HSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAV07264 standard; DNA; 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4 CCATGOCAGOCCOTICG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5 COATGOCAGEGOCOGEG 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-SEP-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kumar Singlu;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (UNMI ) UNIV MICHIGAN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WP1; 1998 261485/24.
                                                                                                                                                                                               WP1; 1994-077-475/10.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primer; VA PNA4; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rest Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mastademovinus 5.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Amaltitano A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23 001 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24.40(1) 14.46;
                             26 NOV 1990;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   W09817784 A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synther in.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Querry Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identifying agonists of G protein-coupled receptors (GPCRs) for use in disease treatment, comprises contacting candidate compounds with versions of GPCRs ^{\circ}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to G protein-coupled receptors (GPCRs) for which the endoquenous ligand has been identified. Non-endoquens
                                                                                                                                                                                                                                                    0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention for the direct identification of candidate compounds as receptor agonists, inverse agonists or partial agonists. Such agonists are useful as therapeutic agents for diseases or disorders
1.6 kb PNA tragment (see AAV07265) comprising the VA-RNA3 sequence and the thrid leader of the tri-partite leader sequence. H5ts36 virion DNA was used as template. The PCK product was used in the construction of claimed plasmid paxdelpoldelpiPVARNA+13, which contains a 2.3 kb deletion within the Ad polymerase and preterminal protein genes and which lacks the 11.4 kb Bamill fragment containing the right arm of the Ad genome. Such constructs have a large cloning capacity and provide improved adenoviral vectors useful for a wide variety of gene therapy applications.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; d profein-coupled receptor; GPCR; non-endogenous; mutant; constitutively activated GPCR; agonist; disease; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   constitutively activated versions of known GPCRs are used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         associated with GPCRs. The present sequence is a primer used to prepare an endogenous version of a known GPCR in an example
                                                                                                                                                                                                                  Length 27;
                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                              Score 13.2: DB 19;
Pred. No. 1e:04;
0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Endoquenous human GPCR 3' primer SEQ 1D NO: 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 30 BP; 5 A; 10 C; 12 G; 3 T; 0 other;
                                                                                                                                                                               Sequence 27 BP; 3 A; 8 C; 13 G; 3 T; 0 other;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 1; Page 45; 394pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                              ABI97732 standard; DNA; 30 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lehmann-Bruinsma K, Liaw CW,
                                                                                                                                                                                                                62.9%;
83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                05-APR-2001; 2001WO-US11098.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-APR-2000; 2000US-195747P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               illustrating the invention.
                                                                                                                                                                                                                                                                                     1 GACCCATGGCACACCCCC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18 FEB - 2002 (first entry)
                                                                                                                                                                                                                                                                                                      23 Octobrodopadoptog 6
                                                                                                                                                                                                                                  Rest Local Similarity 83.3
Matches 15, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AREN-) ARENA PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI: 2001-648759/74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200177172-A2.
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                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                             RESULT 25
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5 GATCCAGGGCAGCCTCG 22
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Search completed: March 18, 2003, 11:01:49 Job time: 136.461 secs

> Gaps 0 Ouery Match 62.9%; Score 13.2; DB 23; Length 30; Best Local Similarity 83.3%; Pred. No. 1e-04; Matches 15; Conservative 0; Mismatches 3; Indels (15; Conservative

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1 GACCCATGGCAGCCCCCG 18

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                                                                                                                           March 18, 2003, 10:54:46; search time 29.6066 seconds (without alignments) 217.527 Million cell updates/sec
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               GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                              441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Post-processing: Minimum Match U%
Maximum Match 100%
Listing first 1000 summaries
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I gaeccalqqeaqcecccqteq 21
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Gapop 10.0 , Gapext 1.0
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Maximum DB seq length: 50
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Database

Result.	Score	* Query Match	* Ouery Match Length DB	108	ID	Description
	14.8	70.5	20	4	US-09-166-448-19	Sequence 19, Appl
CN.	14.8	70.5	20	4	US-09-697-884-19	
·	14.2	67.6	46		US-08-171-389-269	269,
C 4	14.2	67.6	46	~	US-08-123-936-269	
0	14.2	67.6	46	~	US-08-475-228A-269	269,
9	14.2	67.6	46	~	US-08-482-080A-269	269,
7	14.2	67.6	46	4	US-09-354-947-269	269,
د د	14	67.6	46	S	PCT-US93-12388-269	
6	13.8	65.7	23	4	US-09-257-583-35	35, 4
7	.01	65.7	28	4	US-09-136-574A-6	6, A
-	14.8	65.7	3.0	7	8-566-009-80-SD	8
. 12	13.8	65.7	3.0	4	US-09-257-583-26	Sequence 26, Appl
	14.8	65.7	33	4	US-09-257-580-5	5
14	1 4.	64.8	43	4	US-09-064-411A-17	Sequence 17, Appl
15	15.2	62.9	19	4	US-09-064-411A-24	
. 16	13.2	62.9	27	2	US-08-735-609-7	7, 1
. 17	13.2	65.6	27	?	US-08-735-609-7	٦,
æ 	14.2	62.9	27	cr.	US-09-315-372-7	7,
51.0	13.2	62.9		~	US-09-244-752-7	Sequence 7, Appli
. 20	13.2	62.9		~	US-09-245-497-7	Sequence 7, Appli
17	13.2	62.9		4	US-09-562-919-7	Sequence 7, Appli
22	13.2	62.9		₩.	US-09-064-411A-14	Sequence 14, Appl
2.3	14.2	62.9	4.2	4	US-09-422-073-4	4
24	1	61.9	17	3	US-08-594-452-82	Sequence 82, Appl
r 25	1.3	6.19	17	œ.	US-09-258-408-82	Sequence 82, Appl
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Sequence 24, A Sequence 24, A Sequence 12, A Sequence 12, A Sequence 135, Sequence 135, Sequence 23, A Sequence 5, Ap Sequence 5, Ap Sequence 5, Ap Sequence 112, Sequence 12, Sequence 5, Ap Sequence 170, Sequence 170, Sequence 24, A Sequence 25, A Sequence 26, A Sequence 26, A Sequence 27, A Sequence 27, A Sequence 27, A Sequence 27, A Sequence 28, A Sequence 21,	4 US-09-218-089A-18 Sequence 18, A US-09-218-089A-18 Sequence 3, A US-08-38-42-43 Sequence 7, A US-08-38-42-43-8 Sequence 7, A US-09-065-99-18 Sequence 7, A US-09-065-99-44 Sequence 1, A US-09-18-06-99-7 Sequence 1, A US-09-18-06-99-7 Sequence 1, A US-09-18-17 Sequence 1, A US-09-18-17-4 US-08-27-4-618-17 Sequence 1, A US-09-18-17-4 US-08-27-4-618-17 Sequence 1, A US-09-27-17-618-17 Sequence 1, A US-08-27-4-618-17 Sequence 1, A US-08-920-919-4-4 Sequence 1, A US-08-920-919-4-4 Sequence 1, A US-08-920-919-4-4 Sequence 27, A US-08-920-919-4-4 Sequence 27, A US-08-920-919-4-4 Sequence 27, A US-08-920-919-4-4 Sequence 29, A US-08-94-14-16-29 Sequence 6, A US-08-94-14-10-29 Sequence 10, A US-08-91-19-29-10 Sequence 10, A US-08-91-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-8-91-91-9-9-91-9-9-9-9
US-08-454-75 Sequence 35, A 105-09-646-8540-20 Sequence 27, A 105-09-649-815-12 Sequence 12, A 105-09-649-815-12 Sequence 12, A 105-09-120-025-12 Sequence 12, A 105-09-131-932-335 Sequence 13, A 105-09-131-932-135 Sequence 13, A 105-09-131-932-135-30 Sequence 13, A 105-09-131-932-135 Sequence 13, A 105-09-131-932-135 Sequence 13, A 105-09-131-933-135 Sequence 13, A 105-09-131-933-135 Sequence 13, A 105-09-131-933-135 Sequence 170, Sequence 170, A 105-09-131-93-135-135-135-135-135-135-135-135-135-13	6 25 4 US-09-218-086A-18 Sequence 18, A 105-09-218-08459-1 Sequence 1, A 105-09-218-08459-1 Sequence 3, A 105-08-4845-18 Sequence 7, A 105-08-485-18-18 Sequence 7, A 105-08-09-065-999-1 Sequence 7, A 105-09-065-999-1 Sequence 1, A 105-09-065-999-1 Sequence 1, A 105-09-1847-028-7 Sequence 1, A 105-09-1847-028-7 Sequence 1, A 105-09-1847-028-7 Sequence 1, A 105-09-1847-028-7 Sequence 1, A 105-09-184-025-194-14-185-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-194-195-196-195-194-196-195-194-196-195-194-196-196-196-196-196-196-196-196-196-196
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APPLICANT: Stroobant, Vincent
APPLICANT: Brood-Falleur, Thierry
APPLICANT: Holelemans, Kris
APPLICANT: Thielemans, Kris
APPLICANT: Corthals, Jurgen
TILLE OF INVENTION: MAGE: 4 PEPTIDES PRESENTED BY HIA CLASS 11 MoleSTHES
FILE REFERENTE: LOAGLA7052
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PCT-US95-09816A-40
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SOFTWARE: EastSEQ for Windows Version 5.0
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                                                US-08-962-
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s Patent No. 6291430
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Patent No. 6426217
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Thielemans, Kris
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Stroobant, Vincent
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Matches 16, Conservative
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US-09-166-448-19
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  RESULT 1
US-09-166-448-19
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THILE OF INVENTION: MATE 4 PHTTIDES PRESENTED BY HIA CLASS II MOLECULES FILE REFERENCE: 10461/7052
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88.9%; Prod. No. 3.90(02)
ive 0; Mismatches 2; Indels
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Molecules, Compositions and Methods
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genelabs Technologies, Inc
                                                     CURRENT APPLICATION NUMBER: USZ09Z69Z,884
CURRENT FILING DATE: Z000-10-27
                                                                                        PRIOR APPLICATION NUMBER: 09/166,448
PRIOR FILING DATE: 1998-10-05
NUMBER OF SEQ. 1b. No.S.: 81
SEQ. 1b. No. 19
SEQ. 1b. No. 19
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Flatent No. 55/8444
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Edwards, cynthid A.
APPLICANT: Canton, Charles R.
APPLICANT: Andrews, Both M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIUM LYPE: Ploppy disk
COMPETER: LAM PC compatible
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FNPORMALLON FOR SEQ 1D NO: 269:
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PRIOR APPLICATION DATA:
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PRIOR APPLICATION DAIA:
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Corthals, Jurgen
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APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: SequE
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RESISIKATION NUMBER:
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MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                      ORGANISM: Homo sapiems
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APPLICANT:
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US 08 124-936-269
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Pred. No. 7e+02;
0; Mismatches 3; Indels
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APPLICANT: Cantor, Charles R.
APPLICANT: Androws, Beth M.
APPLICANT: Tarin, Lisa M.
1111E OF INVENTION: Screening Assay for the betection of
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INDIVIDUAL ISOLATE: protein 31
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INDIVIDUAL ISOLATE: protein Gl
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CURRENT APPLICATION DATA:
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FILLING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 269, Application US/U8123946
Patent No. 5726014
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14LEFAX: (415) 424-0960
INPORMATION FOR SEQ ID NO: 269:
SEQUENTE CHARACTERISTICS:
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HYPOTHETICAL: NO
                                                                                         M-LECHLE TYPE: DNA (genomic)
                                                                                                                                                                                                                                   67.6%;
84.2%;
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                  LENGTH: 46 base pairs
IYPE: nucleic acid
SIKANDEDNESS: double
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REGISTRATION NUMBER: 3
SECHEN'E 'HARACIERISID'S:
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SIRANDEDNESS: double
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MEDIUM TYPE: Floppy o
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CORRESPONDENCE ADDRESS:
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Best Local Similarity
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67.6%; Score 14.2; DB 1; Length 46; 84.2%; Pred, No. 7e+02; 1; O: Mismatches 3; Indels
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                                                                                                                                                                                                                                                                                                                         APPLICANT: Edwards, Cynthia A. APPLICANT: Carbox, Charles R. APPLICANT: Carbox, Heth M. APPLICANT: Torin, Lisa M. APPLICANT: Fry, Kirk E. M. APPLICANT: Fry, Kirk E. H. H. H. Carbox, Compositions and Methods ITILE OF INVENTION: Molecules, Compositions and Methods
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INDIVIDUAL (SOLATE: protein Gl
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COMPATION SYSTEM: PC-DOS/MS-LOS
SOFTWARE: PATENTIA RA-DASE #1.0, VELSION #1.25
CHERBIT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,228A
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REFERENCE/FORCKET NUMBER: 4600-0175,21/6190402
PELECOMMUNICATION INFORMATION:
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ADORESSEE: Genelabs Technologies, Inc
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PRIOR APPLICATION DAIA:
APPLICATION NUMBER: US 08/081,070
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FILING DATE: 17-SEP-1993
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FILING DATE: 23-DBC-1992
PRIOR APPLICATION DATA:
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; Sequence 269, Application US/08475228A
; Pulent No. 5869.441
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Stratford, Carol A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
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                                                                                            1 GACCCATGGGAGGCCCCCT 19
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                                              Conservative
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Onery Match
Best local Similarity
Matches 16; Conserv
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US-08:475-228A-269
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67.6%; Score 14.2; DB 4; Length 46;
84.2%; Pred. No. 7ee02;
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APPLICANT: Fry, Kirk E.
TIFLE OF INVENTION: Sequence Directed DNA Binding
TIFLE OF INVENTION: Molecules, Compositions and Methods
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PELON DATE: 20 DEC 1953
PELON DATE: 20 DEC 1953
APPLICATION MATERIAL
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FILING DATE: 23 DB? 1992
PRIOK APPLICATION DATA:
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                                                                                                                                              Sequence 269, Application US/09454947
Patent No., 6484208
                                                                                                                                                                                                            APPLICANT: Edwards, Cynthia A.
APPLICANI: Cantor, Charles E.
                                                                                                                                                                                                                                                                                                                                                                                                                        505 Penobscot Drive
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HYPOTHETICAL: NO
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                                                                                                                                                                                                                                                      Andrews, Beth M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $661 NOC-20
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PRIOR APPLICATION DATA:
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PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Floppy disk
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1. GASSINATION AND CONTROL 19
                   43 GAACTALGATEL THE 1
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TNPORMATION POR SEQ ID NO: 2
SEQUENCE CHARACTERISTICS:
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Best Local Similarity
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                                                                                                                      US 09 354 947 26970
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84.2%; Pred, No. 7e:02;
Live 0; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
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07-JUN 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRICK APPLICATION DATA:
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PILLING DATE: 24 DEC11992
PRICH APPLICATION DATE:
APPLICATION NUMBER: US 07/724,618
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                                                                                                                                                                Sequence 269, Application US/08482080A
Patent No. 6010849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: PC DOS/MS DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                Edwards, Cynthia A.
                                                                                                                                                                                                                                               APPLICANT: Cantor, Charles R. APPLICANT: Andrews, Beth M. APPLICANT: Turin, Lisa M.
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INFORMATION FOR SEQ ID NO: 269:
                                                                                                                                                                                                                                                                                                                                                                                                                                          505 Periobscot Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Molecule TYPE: DNA (qenomic)
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PRIOR APPLICATION DATA:
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APTORNEY/AGENT INFORMATION:
                   1 GACCCATGRACATORS 19
                                       FILLING DAFE: 27 JUN-1991
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STRANDEDNESS: double
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APPLICATION NUMBER: 1
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    Indels
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                                                                                                                                                                                                                                 Sequence-Directed DNA Binding Molecules, Compositions and Methods
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  Mismatches
                                                                                                                                                                                                                                                                                                            E: Genetabs Technologies, Inc.
505 Penobscot Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US93/12388
                                                                                                                                                      FOT-US93-12488-269/c
: Sequence 269, Application PC/TUS9312388
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 08/123,936
FILLING DATE: 17-SED-1993
PRIOR APPLICATION DATE:
APPLICATION NUMBER: US 07/996,783
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C_MPUTER: IBM_PC_compatible
OPERATING_SYSTEM: PC-DOS/MS-DOS
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> Patent No. 6429362
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TELEFAX: (415) 324-0960
INPORMATION FOR SEQ ID NO: 269:
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FEGISTRATION NUMBER: 43,875
REFERENCE/DOCKET NUMBER: 46
TELECTAMMINICATION INFORMATION:
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HYPOTHETICAL: NO
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ATTURNEY/AGENT INFORMATION:
                                                        4 - GAACCATGGCAGCTCCCTT 25
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                                    1 SAMMATOMARGOMAGE 19
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15; Conservative
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STRANDEDNESS: double
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CORRESPONDENCE ADDRESS:
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Best Local Similarity
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Treating Cellulose Containing Fabrics Using Truncated
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                                                                                                                                                                                                                                                                                                                       65.7%; Score 13.8; DB 4; Length 23;
88.2%; Pred, No. 1e-03;
tive 0; Mismatches 2; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE/DOCKET NUMBER: 19970S001/CIP
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APPLICATION NUMBER: US 08/942,571
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                        CURRENT APPLICATION NUMBER: US/09/257,584A CURRENT FILING DATE: 1999-02-25
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SEQUENCE DESCRIPTION: SEQ 1D NO: 6:
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FILE REPERENCE: 5718-42, 045718/175219
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COMPUTER: IBM Compatible
OPERAFING SWSTEM: DOS
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NAME: Bak, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Bergquist, Peter
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1ELEX: < Unknown >
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Morgan, Huqb W.
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                                                                                                                                                                                    "RGANISM: Attiticial Sequence
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                                                                   NUMBER OF SEQ ID NOS: 37
SOFTWARE: Patentin Ver. 2.0
SEQ ID No 35
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23 CARGONANAEGGIOG 7
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                                                                                                                                                                 LYPE: INA
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                                                                                                                                                                                                                                                                                                                               NEW INTERNAL RIBOSOME ENTRY SITE, VECTOR CONTAINING IT AND THERAPEUTIC USE
Score 14.8; bB 4; Length 28;
Pred. No. 1e+03;
0; Mismartches 2; Indels
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TELECOMMUNICATION INFORMATION:
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FILING DATE: 05-MAR-1996
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: FR 94 08 800 FILLING DATE: 05 JUL-1994
                                                                                                                                                                                                                                                                        APPLICANT: JACQUEMOND, Sandrine
APPLICANT: TORRENT, Christophe
APPLICANT: DARLIX, Jean-Luc
                                                                                                                                                                                                     Sequence B, Application US/08600999
Patent No. 5925565
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E: Floppy disk
IBM PC comparible
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                                                                                                                                                                                                                                                         Clarisse
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HYPOTHETICAL: NO
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 65.7%;
88.2%;
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ATTORNEY/AGENT INFORMATION:
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                                                                         Z. ACCOALGGCAGCCCCCG 18
                                                                                          5 ACCCATGGTAACCCCCG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: United States
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 GAPPPATOOPAGEMENT 17
                                     15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 40 base pairs
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COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: OF TITLE OF INVENTION: ON NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                       APPLICANT: RERLIOZ,
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                    Rest Local Similarity
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                                                                                                                                                                                                                                                                                                                                            OTHER INFORMATION: Description of Artificial Sequence: Maize OTHER INFORMATION: qene-specific PCF primer
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Fred, No. Tech3;
                                                                                                                                                                                                                                                                                                                                                                                                                             65,7%; Score 14,8; DR 4; Lougth 30;
                                                                                                                          TILLE REFERENCE: 5718-52, 0.55718/175219
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0; Mismatches
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FILE REFERENCE: Canino p53
                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/202,584A CURRENT FILMS DATE: 1999-02-25 UNIMBER OF SEQ. ID NOS: 47 SOFTWARE: Patentin Vol. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/257,580 CURRENT FILLING DATE: 1999-02-25
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PKTOK APPLICATION NUMBER: 980-04778-3
NUMBER: 11,1M3 DATE: 1998-02-29
NUMBER: 11,1M3 DATE: 1998-02-29
                                         Sequence 26, Application 08/09257583A Patent No. 64/29362
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Fateur No. 6331664
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; Patent No. 6407046
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APPLICANI: Ammstrone, Katherine
APPLICANI: Cowen, Neil M.
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                                                                                                       APPLICANT: Crane, Virginia
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Best Local Similarity
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                                                                                     GENERAL INPORMATION:
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US 09:257:580 5
                      0/97 284 76/0
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RESULT 12
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THILE OF INVENTION: Mucleotide Sequences of Maize oleoyl ACP
THILE OF INVENTION: Thioesterase and Palmitoyl ACP Thioesterase denes and
THILE OF INVENTION: Their Use in The Regulation of Patty Acid Content of Oil
NUMBER OF SEQUENCES: 49
COPRESSONDENCE ADDRESS:
TITLE OF INVENTION: Thiopsterase and Palmitoyl ACP Thiopsterase Genes and TITLE OF INVENTION: Their Use in The Regulation of Eatty Acid Content of Oil
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                                                                                                                                                                                                                                                                            OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.50
SURENIT APPLICATION DATA:
APPLICATION NUMBER: US/09/064,411A
FILLING DATE: 22-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Alokessee: Dow Agrosciences Patent Department
                                                                                     ADDRESSEE: Dow Adrosciences Patent Department
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US-09-064 411A-24
Sequence -44, Application US/09064411A
Patent No. 6331664
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APPLICANT: Cowen, Neil M.
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                                                                                                       SIREEL: 9330 Zionsville Road
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APFLICANT: Guo, Lining
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COMPUIEK: IBM PC COMPATIBLE
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80.0%;
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317 - 337 - 4847
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Best Local Similarity 80.03
Matches 16; Conservative
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TYPE: nucleic acid
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MEDIUM TYPE: Floppy
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                                        NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
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Molecole TYPE: DNA
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Gaps
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83.3%; Fred. No. 1.9e+03;
tive 0; Mismatches 3; Indels
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OF EKATING SYSTEM: PC-bus/MS DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
                     SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APELICATION DATA:
APPLICATION NUMBER: US/09/064,411A
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APPLICANT: Hanser, Michael A.
APPLICANT: Kumar-Sindh, Rajendra
APPLICANT: Hartiqan-O'Connor, Dennis J.
TITE OF INVENTION: IMPROVED ADEN WIRDS VECTORS
NUMBER OF SEQUENCES: 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: 220 Montagmery Street, Suite 2200 CITY: San Francisco
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                                                                                                                             PETOR APPLICATION DATA:
APPLICATION NUMBER: US 60/045,827
FILING DATE: 05-MAY-1997
ALFORDEY/ASENT INFORMATION:
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APPLICANT: Chamberlain, Jettrey S.
APPLICANT: Amalfitano, Andrea
OPERALING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                  REPERENCE/PORKET NUMBER: 504 43
TELECOMMUNICATION INFORMATION:
TELEPHONE: 317-337-4846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 7, Application US/08735609
; Patent No. 5955360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
Computible IBM PC compatible
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REGISTRALION NUMBER: 40,027
                                                                                                                                                                                                                            NAME: Borocki, Andrea F.
REGISTRATION NUMBER: 33651
                                                                                     22-AFR-1998
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INFORMATION FOR SEQ ID NO: 7
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Matches 15; conservative
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CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                         417-337-4847
                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ 1D NO:
                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 19 base pairs
TYPE: nucleic acid
STRANDEDNESS: simile
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1YFE: nucleic acid
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CLASSIFICATION: 435
                                                                                     FILING DATE: 22-APR-
CLASSIFICATION: 800
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MOLECTURE TYPE: DNA
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Pred, No. 1.9e+03;
0; Mismatches 4; Indels
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84.3%) Pred, No. 1.9993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STREET: 220 Montgomery Street, Suite 2200
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Bartiqan-O'Connor, Dennis J.
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APPLICATION NUMBER US/08/735,609
FILLINI DATE: 23-601-1996
CLASSIFICATION: «Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY: United States of America 21P: 94104
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TELECOMMUNICATION INFORMATION:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Chamberlain, Jeffrey S.
Amalfitano, Andrea
Hauser, Michael A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REGISTRATION NUMBER: 40,027
                                        MOLECULE FYPE: other nucleic acid
DESCRIPTION: /desc "DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (415) 705 8410
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; Sequence 7, Application US/08735609
; Patent No. 599412
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CITY: San Francisco
                                                                                                                                 62.9%;
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CORRESPONDENCE ADDRESS:
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                                                                                                                 Obest Local Similarity 83.38
Hest Local Similarity 83.38
Herobes 15; Conservative
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Best Local Similarity 83.49
Matches 15, Conservative
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SIRANDEDNESS: sindle
                                                                                                                                                                                                                                           Linear
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84.3%; Prod. No. 1.90003;
Five 0; Mismarches 4; Indels
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                                                                                                         APPLICANT: Komar Single, Rajendra
APPLICANT: Hartigan of Comor, Dennis J.
TITLE OF INVENTION: IMPROVED ADENOVIRIS VECTORS
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APPLICANT: finuser, Michael A.
APPLICANT: Koman Sirah, Rajendia
APPLICANT: Halliqui o'Commo, Dennis J.
TITLE OF INVENTION: IMPROVED ADEMOVIMIS VECTORS
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220 Montgemery Street, Suite 2200
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APPLICATION NUMBER: US/09/415, 472
                                                                                                                                                                                                                                                                                                                COUNTRY: United States of America
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                                           Chambertain, Jettrey S.
Amaltitano, Andrea
Banser, Michael A.
                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS DOS
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Patent No. 6063622
GENERAL INPORMATION:
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REGISTRATION NUMBER: 40,027
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Best Local Similarity 83.39
Matches 15; Conservative
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STRANDEDNESS: single
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SIAIE: California
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                                                                                                                                                                                                                                                                                         California
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                         GENERAL INFORMALTON:
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Patent No. 6057158
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                                           APPLICANT:
                                                                                       APPLICANI:
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RESULT 21
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Pred. No. 1.90*03;
0; Mismatches 3; Indels
                                                                           SOFTWARE: Patentin Release #1.0, Version #1.30
CORRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/244,752
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CORRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/245,497
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APPLICANT: Amaltitano, Andrea
APPLICANT: Hauser, Michael A.
APPLICANT: Hauser, Michael A.
APPLICANT: Kumar-Singh, Rajendra
APPLICANT: Hartigan-O'Comnor, Dennis J.
TITLE OF INVENTION: IMPROVED ADENOVIBUS VESTORS
NUMBER OF SEQUENCES: 15
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APPLICATION NUMBER: +B) FILING DATE:
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            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OFEKATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : MOLECULE TYPE: Other nucleic acid
: OESTRETION: Zdesc "DNA"
US-09 244 752-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                       08/735,609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-245 497-77c
: Sequence 7, Application US/09245497
: Patent No. 6084750
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  40,027
                                                                                                                                                                                                                                                               NAME: Ingolia, Diane E.
REGISTRATION NUMBER: 40,027
REFERENCE/DOCKET NUMBER: UM
FELEC AMOUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                              62.98;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AFICENEYZAGENT INFORMALION:
NAME: Ingolia, Diane E.
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                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        84.48;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                  LENGIH: 27 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM: MEDIUM TYPE: Floppy of
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COMPUTER READABLE FORM:
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                                                                                                                                                                                                     APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                     nucleic acid
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hes 15; Conserv
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                                                                                                                                                              TLASSIFICATION:
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                                                                                                                                         FILING DATE:
                                                                                                                                                                                                                      FILLING DATE:
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84.3%; Pred. No. 1.90+03;
                                                                                                                                                                                                                                                                                                Length 27;
                                                                                                                                                                                                                                                                                                                                              3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SOFTWAKE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREEL: 220 Montgomery Street, Suite 2200
                                                                                                                                                                                                                                                                                            62.9%; Score 13.2; DB 3;
83.3%; Prod. No. 1.9e+03;
live 0; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Houser, Michael A.
Kumar Singh, Rajendra
Hartiwan-O'Connor, Dennis J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CoUNTRY: United States of America 21P: 94104
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DicKET NUMBER: UM-02484
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ADDRESSEE: Medlen & Carroll, LLP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: THM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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MOLECULE TYPE: other nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANI: Chamberlain, Jeffrey S. Amallitano, Andrea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Ingolia, Diane E.
REGISTRATION NUMBER: 40,027
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                                                                                                                                                                        Populary: linear
MaleCuls IYPE: other meleic acid
DESCRIPTION: /desc - "DNA"
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CLASSIFICATION: <Unknown>
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; Sequence 7, Application US/09562919
; Patent No. 6451596
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TYPE: mucleic acid
TELECTOMBUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
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                TELEPHONE: (415) 705-8410
TELEFAX: (415) 397-8338
INFORMATION FOR SEQ ID NO: 7:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ 1D NO: 7:
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                                                                                         SEQUENCE CHARACTERISTICS:
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Matches 15, conservative
                                                                                                            LENGTH: 27 base pairs
1YPE: bucleic acid
SIRANDEDNESS: single
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US 08 594 452 82
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TITLE OF INVENTION: Thioesterase and Palmitoyl-ACP Thioesterase Genes and
TITLE OF INVENTION: Their Use In The Requiation of Fatty Acid Content of Oil
  0; Gaps
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Pred, No. 1,9e+03;
  4; Indels
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  0; Mismatches
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                                                                                                                                                                          Sequence 14, Application US/09064411A
Patent No. 6441664
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                                                                                                                                                                                                                                                                            APPLICANT: Skokut, Tom
APPLICANT: Young, Scott
APPLICANT: Polkerts, Otto
APPLICANT: Armstrong, Katherine
APPLICANT: Cowen, Neil M.
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Fatent No. 6258566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SIREET: 9330 Zionsville Road
CITY: Indianapolis
                                                                                                                                                                                                                                        APPLICANT: Rubin-Wilson, Beth APPLICANT: Guo, Lining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELECOMMUNICATION INFORMATION:
TELEPHONE: 317:337-4386
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Rest Local Similarity (83,3%)
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AFFORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Borucki, Andrea T.
REGISTRATION NUMBER: 33
                                       1 GACCCATGGCASCCCCG 18
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                                                                            24 GOVERNATORIVACIONECES 6
Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: nucleic acid
STRANDEDNESS: single
                                                          COMPUTER READARLE FORM:
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FILING DATE: 22-APP
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                                                                                                                                       RESULT 22
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0; Gaps
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                               APPLICANT: Ziermänn, Beiner
TITLE OF INVENTION: PROBECTION OF POLYKETIDES IN BACTEPIA
TITLE OF INVENTION: AND YEAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Estent No. norses.
GENERAL INFORMATION:
APPLICANT: DHEMANN, FORCO
APPLICANT: DHEMANN, FORCO
TITLE OF INVENTION: G CAP STAHILIZED OLIGONICHEOTIDES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: Patentin Release #1.0, Version #1.30
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                                                                                                                                                                                                                       SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                               CURRENT APPLICATION NUMBER: US/09/422, 073 CURRENT FILLING DATE: 1999-10-21
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FILLING DATE: 41-JAN-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                            PRIOR APPLICATION NUMBER: US 60/033, 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/08/594,452
FILING DATE: 3 JAN 1996
CLASSIFICATION: 536
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 82, Application 08/08594452
Fatent No. 601 639
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REFERENCE/JearKET NUMBER: 18
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TELEPHONE: (202):672-5:00
                                                                                                100.016,01
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                                                                                                                                                                              1996 12 18
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                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                        186.79
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(202)672 5399
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                                                                                                                                                                                                                                                                                                                                          OTHER INFORMATION: Primer
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APPLICANT: Santi, Daniel
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COMPUTER READABLE FORM;
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                Ashley, Gary
                                                                                                                                                                                             NUMBER OF SEC 1D NOS: 7
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                                                                                                                                                                                 PRIOR FILLING DATE:
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US 08 594-452 82/c
                                                                                                FILE REFERENCE:
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LENGIH: 42
                APPLICANT:
APPLICANT:
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Query Match 61.9%; Score 14: DB 3; Length 17; Best Local Similarity 100.0%; Pred. No. 2.3e+03; Matches 14: Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                           Sequence B1, Application US/09258408
Falent No. 6121444
GENERAL INFORMATION Anuschirwan
APPLICANT: UHLMANN, Eugen
TITLE OF INVENTION: G CAP-STABILIZED GLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 105
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.50
CURRENT APPLICATION DATA:
FILLION NUMBER: US/09/258,408
FILLION DATE:
CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Search completed; March 18, 2003, 12:09:05
Job time : 33,6066 sees
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APPLICATION NUMBER: 08/594,452
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: SANDERCKCK, COLIN G.
REGILSTRATION NUMBER: 31,298
REFERENCE/DOCKET NUMBER: 1874b
TELED-MMUNICATION INFORMATION:
TELEPHONE: (202)672-5390
TELEFAX: (202)672-5399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 82:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LEWJTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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ZIP: 20007-5109
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US-09-258 498-82/c
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OM nucleic : nucleic search, using sw model

March 18, 2003, 11:26:36 ; Search time 44.7705 Seconds
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423.899 Million cell updates/sec Kun on:

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IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

501302 seqs, 350932545 residues Searched: fotal number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 50

Post-processing: Minjmum Match 0% Maximum Match 100% Listing first 1000 summaries

Database :

Published_Applications_NA:*

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/cun2_6/ptodata/2/pubpna/US50_NEW_PUB_Seq:*
/cun2_6/ptodata/2/pubpna/US50_NEW_PUB_Seq:* Fred. No. is the number of results predicted by chance to have a source areater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARTES	ID bescription	US-09-840-479-35 Sequence 35, Appl		28, 1	8 Sequence 428,		US-09-990-444-428 Sequence 428, App	128,	428,	-	4.28,	US-09-989-744-428 Sequence 428, App		US-09-993-667-428 Sequence 428, App	US-39-990-438-428 Sequence 428, App	428,	428,	US-09-997-666-428 Sequence 428, App	428,	
SUMMARIES	91	10 US-09-840-479-35		US-09-992-598-428	US-09-989-294A-428	US-09-989-735-428	US-09-990-444-428	08-09-989-740-428	118-09-990-4-6-428	US-09-991-181-428	US-09-993-687-428	US-09-989-744-428	US-09-997-654 428	US-09-993-667-428	US- 39-990-438-428	118-39-990-562-428	US-09-997-428 428	US-09-997-666-428	US-09-990-711:428	00 F - 30 F - 90 B - 911
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Sequence 49, Appl Sequence 4, Appl I Sequence 4, Appl I Sequence 42, Appl I Sequence 44, Appl Sequence 48, Appl Sequence 48, Appl Sequence 48, Appl Sequence 48, Appl Sequence 223, Appl Sequence 224, Appl Sequence 2244, App	406.
Sequence 49, Appl Sequence 4, Appl Sequence 4, Appl Sequence 42, Appl Sequence 43, Appl Sequence 45, Appl Sequence 45, Appl Sequence 45, Appl Sequence 46, Appl Sequence 41, Appl Sequence 223, Appl Sequence 11, Appl Sequence 12, Appl Sequence 13, Appl Sequence 14, Appl Sequence 15, Appl Sequence 22, Appl Sequence 22, Appl Sequence 24, Appl Sequence 25, Appl Sequence 25, Appl Sequence 26, Appl Sequence 27, Appl Sequen	406.
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	405 Sequence 406, 406 Sequence 406,
	09-997-655-405 09-990-711-405 Sequence 406,
118. 119. 119. 140. 140. 140. 150. 150. 150. 140. 140. 150. 150. 150. 150. 150. 150. 150. 15	DS 09-997-1446 Sequence 405. DS 09-990-711-405 Sequence 405.
0 115	9 DS 09-997-466-408, Sequence 408, 9 DS 09-990-711-406, Sequence 406,
118. 119. 119. 140. 140. 140. 150. 150. 150. 140. 140. 150. 150. 150. 150. 150. 150. 150. 15	9 DS 09-997-466-408, Sequence 408, 9 DS 09-990-711-406, Sequence 406,
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20 10 118 104 2 5669 39 22 8 108 109 344 5 5604 7014 39 9 108 09 948 5 946 4 41 9 108 09 948 425 42 41 10 108 109 948 425 42 41 10 108 109 949 47 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 41 10 108 109 997 477 - 42 42 10 108 109 997 477 - 42 43 10 108 109 997 477 - 42 44 10 108 109 997 477 - 42 45 10 108 109 997 477 - 42 47 10 108 109 997 478 - 424 48 10 108 109 997 478 - 424 49 108 109 997 478 - 424 40 108 109 997 478 - 424 40 108 109 997 478 - 424 41 10 108 109 97 478 - 424 42 10 108 109 97 47 - 424 43 10 108 109 97 47 - 424 44 10 108 109 997 47 - 484 45 10 108 109 997 47 - 484 46 10 108 109 997 47 - 484 47 10 108 109 997 486 108 97 48 10 10 108 109 986 108 982 48 10 10 108 109 986 108 982 49 10 10 108 109 986 108 982 40 10 10 108 109 986 108 982 40 10 10 108 109 986 108 982 40 10 10 108 109 986 108 982 40 10 10 108 109 986 108 982 40 10 10 10 10 10 10 10 10 10 10 10 10 10	46 9 118 09 997 7466 406 Sequence 406, 466, 466, 864 perior 406, 406, 406, 406, 406, 406, 406, 406,
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TITLE OF INVENTION: Family of Maize Pk 1 Genes And Promoters
FILE REFERENCE: $718-32, 035718/175219
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PRIOR APPLICATION NUMBER: 09/257,583
PRIOR FILLING DATE: 1999-02-25
MINIMED AS COLUMBER: AMERICA 25
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Patent No. 0820010025380Al
GENERAL INPORMALION:
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r Patent No. 0820010025380A1
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Matches 15; Conservative
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TELLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nacheier TITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: P2740P1C20
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                 THILE OF INVENTION: Family of Maize PR 1 Genes And Promoters FILE REFERENCE: 5718-42, 0.35718/175219
CURRENT APPLICATION NUMBER: US/09/840,479
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PRIOR FILING DATE: 1997 TO 17
PRIOR APPLICATION NUMBER: 60/065186
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PRIOR FILING DATE: 1267-11-24
PRIOR APPLICATION NUMBER: 60/7075945
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Williams, P. Mickey
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APPLICANI: Crane, Virginia
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Botstein, bavid
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APPLICATION NUMBER: 60/089653 FILTING DATE: 1998-06-17 APPLICATION NUMBER: 60/089801 APPLICATION NUMBER: 60/089948 FILING DATE: 1998-06-19 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090435 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090472 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090540 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090557 APPLICATION NUMBER: 60/090690 FILING DATE: 1998:06-25 APPLICATION NUMBER: 60/090694 FILING DATE: 1998-06-25 APPLICATE N NUMBER: 60/090862 FILING LAIE: 1994-06-26 FILING DATE: 1998-07-01 APPLICATION NUMBER: 60/091519 FILING DALE: 1998-06-17 APPLICATION NUMBER: 60/089599 APPLICATION NUMBER: 60/089908 FILING DATE: 1998-06-18 APPLICATION NUMBER: 60/089947 FILING DATE: 1998-06-19 FILING DAIE: 1998-06-19 APPLICATION NUMBER: 60/090246 FILING DAIE: 1998-06-22 APPLICATION NUMBER: 60/090252 FILING DAIE: 1998-06-22 APPLICATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090349 FILING DATE: 1998-06-23 APPLICATION NUMBER: 60/090355 FILING DATE: 1998-06-23 APPLICATION NUMBER: 60/090429 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090444 APPLICATION NUMBER: 60/090445 APPLICATION NUMBER: 60/090535 APPLICATION NUMBER: 60/090542 APPLICATION NUMBER: 60/090676 APPLICATION NUMBER: 50/090678 APPLICATION NUMBER: 60/090695 APPLICATION NUMBER: 60/090696 APPLICATION NUMBER: 60/090863 APPLICATION NUMBER: 60/091460 APPLICATION NUMBER: 60/089600 APPLICATION NUMBER: 60/089907 APPLICATION NUMBER: 60/089952 APPLICATION NUMBER: 60/090431 1998-06-25 1998-06-25 1998-06-25 1998-07-02 FILING DATE: 1998-06-18 1998-06-24 1498-06-25 1993-06-26 1993-07-01 1998-06-18 FILING DATE: 1998-06-22 1998-06-24 1998-06-24 1998-06-24 1998-06-24 998-06-17 1998-06-17 FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILLING DATE: FILING DATE: LING DATE: LING DATE: FILING DATE: FILING LATE: FILING LANE: FILING DATE: PRIOR

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                                                                                                                                                                                                            Gaps
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                                                                                                                                                                            Score 13.4; DR 9; Longth 21;
Pred, No. 2, 6003;
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                        PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60,00916-44
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                                                                                                                                                                                                                                                                                                                                          Sequence 428, Application US/09989293A Patent No. US20020177164A1 GENERAL INFORMATION:
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FILLING DATE: 1997-11-24
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             APPLICATION NUMBER: 60/091626
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Grimaldi, J.Christopher
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Williams, P. Mickey
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Goddard, Andrey
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Best Local Similarity 94.3
Matches 14: Conservative
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Botstein, David
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PRIOR APPLICATION NUMBER: 60/089440
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PRIOR APPLICATION NUMBER: 60/088326
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FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090535 FILING DATE: 1998-06-24 FILING DATE: 1998-06-25 APELICATION UNMER: 60/090690 FILING DATE: 1998-06-25 APELICATION NUMBER: 60/090694 FILLING DATE: 1998-07-02 APPLICATION NUMBER: 60/091978 FILLING DATE: 1998-07-07 APPLICATION NUMBER: 60/089801 FILING DATE: 1998-06-18 FILING DATE: 1998-06-18 APPLICATION NUMBER: 60/089908 FILING DATE: 1998-06-22 APPLICATION NUMBER: 60/090252 FILLING DATE: 1998-06-24 APPLICATION NUMBER: 60/090472 APPLICATION NUMBER: 60/090542 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090863 FILING DATE: 1998-06-26 FILING DATE: 1998-07-01 APPLICATION NUMBER: 60/091519 APPLICATION NUMBER: 60/091633 APPLICATION NUMBER: 60/089907 APPLICATION NUMBER: 60/089947 APPLICATION NUMBER: 60/089948 FILING DATE: 1998-06-19 APPLICATION NUMBER: 60/089952 FILING DATE: 1998-06-19 APPLICATION NUMBER: 60/090246 APPLICATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090349 APPLICATION NUMBER: 60/090355 APPLICATION NUMBER: 60/090429 APPLICATION NUMBER: 60/090441 APPLICATION NUMBER: 60/090435 APPLICATION NUMBER: 60/090444 APPLICATION NUMBER: 60/090445 APPLICATION NUMBER: 60/090540 APPLICATION NUMBER: 60/090557 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090676 APPLICATION NUMBER: 60/090678 APPLICATION NUMBER: 60/090695 APPLICATION NUMBER: 60/090696 APPLICATION NUMBER: 60/090862 APPLICATION NUMBER: 60/091360 APPLICATION NUMBER: 60/091478 APPLICATION NUMBER: 60/091544 APPLICATION NUMBER: 60/091626 1998-07-02 1998-06-25 1998-07-02 1998-07-02 1998-07-02 1998-06-22 FILING DATE: 1998-06-24 1998-06-24 FILLING DATE: 1998-06-24 1998-06-25 1998-06-26 1998-06-17 1998-06-18 FILING DATE: 1998-06-19 1998-06-22 1998-06-24 FILING DAFE: 1998-06-24 1998-06-25 1998-06-25 1998-07-01 FILING DATE: 1998-06-24 1998-06-24 FILING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DAFE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DAFE: FILING DATE: FILING DAFE: LING DATE: LING DATE: PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRECENT OF BRICK B PRIOR PRIOR PRIOR PRIOR PRIOR

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TITLE OF INVENITON: Sevreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENITON: Acids Encoding the Same
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PRIOR APPLICATION NUMBER: 60/04/9/87
PRIOR PILINI TATE: 19/9-06-16
PRIOR APPLICATION NUMBER: 60/06/25/0
PRIOR FILINI TATE: 19/9/10-17
PRIOR FILINI TATE: 19/9/10-17
PRIOR FILINI TATE: 19/9/11-12
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PRIOR FILLING TAILS: 1997-11-24
PRIOR PPLICATION NUMBER: 60/075945
PRIOR FILLING TAILS: 1998-02-25
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILLING INLE: 1998-07-07
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PRIOR APPLICATION NUMBER: 60/087106
PRIOR FILLING DATE: 1998-05-28
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PRIOR FILLING DATE: 1997-11-13
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PRIOR APPLICATION NUMBER: 60/087759
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Gurney,Austin L.
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Williams, P. Mickey
Wood, William I.
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Ferrara, Napoleone
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Goddard, Audrey
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APPLICANT: Baker, Kevin P.
APPLICANT: Botsfein, David
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Napier, Mary A.
                                                                                                           Query Match
Rest Local Similarity 93.3
Matches 14; Conservative
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LICATION NUMBER: 60/089600 APPLICATION NUMBER: 60/08/827 JCATION NUMBER: 60/088021 APPLICATION NUMBER: 60/088025 FILING DATE: 1998-06-04 JCATION NUMBER: 60/088030 ICATION NUMBER: 60/088033 JUATION NUMBER: 60/088326 JCATION NUMBER: 60/088167 JCATION NUMBER: 60/088202 JCATION NUMBER: 60/088212 LICATION NUMBER: 60/088217 INC DATE: 1998-06-05 APPLICATION NUMBER: 60/088655 60/0887 44 .ICATION NUMBER: 60/088738 JCATION NUMBER: 60/088742 60/088810 ING DATE: 1998-06-10 LICALION NUMBER: 60/088824 ELICATION NUMBER: 60/088826 INC DATE: 1998-06-10 LICATION NUMBER: 60/088858 E0/088861 60/088876 LICATION NUMBER: 60/089105 LICATION NUMBER: 60/089440 LICATION NUMBER: 60/089512 JCATION NUMBER: 60/089514 APPLICATION NUMBER: 60/089532 JCATION NUMBER: 60/089538 LICATION NUMBER: 60/089598 JCATION NUMBER: 60/089599 JICATION NUMBER: 60/089653 LICATION NUMBER: 60/089801 JUNATION NUMBER: 60/089907 APPLICATION NUMBER: 60/089908 APPLICATION NUMBER: 60/088026 60/088028 APPLICATION NUMBER: 60/088029 1338-06 18 1998 06 18 1998-06-09 1998 06-10 01-90-8661 1998-06-10 1998-06-10 91 - 90 - 8651 1998-06-16 1998-06-17 1998-06-17 1348-06-17 199B 06-1B FILING DATE: 1998-06-02 1998-04-03 1998 06-04 1998-06-05 1998 06-12 1998-06-16 1998-06-17 1998-06 17 1998-06-17 1998 06:04 1338-06 04 1998-06-04 1998-06-04 1998-06-04 1998-06-04 1998-06-05 1998-06-05 1998 Ob. 11 1998-06-11 1998 06 11 LICATION NUMBER: ING DATE: 1998-06 LOATION NUMBER: TOATION NUMBER: TOATTON NUMBER: TO'ALTON NUMBER: PRIOR FILLING DATE: FILLING DAFE: FILING DATE: FILING DATE: FILLING DATE: FILING DATE: ING DATE: FILING DATE: INC DATE: INC DATE: FILLING DATE: FILLING DATE: INC DATE: FILING DATE: ING DATE: ING DATE: FILING DATE: DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: INC DATE: ING DATE: FILING DATE: INC DATE: FILLING DAFE: NG DATE: INC DATE FILING APPL 7 APP APPI APPI Y.L. APPI APP AFF 7:12 A !!! 7 APP Ξ. Ξ. APPI 년 :: APPI Z-IV APP Z-F N. Y 7 7.5 Ϋ́ Ϋ́ ٧ ١ 2 PRIOR PR TOR PR TOR PR TOR PRIOR PR10K PR10K PRIOR PRIOR PR10R PR10R PRIOR PRIOR PRIOR PRICE PRIOR

PRIOR APPLICATION NUMBER: 60/091626 PRIOR FILING DATE: 1998-07-02 PRIOR APPLICATION NUMBER: 60Z091978 PRIOR FILING DATE: 1998-07 07 APPLICALTON NUMBER: 60/090252 APPLICATION NUMBER: 60/090435 60/090445 APPLICATION NUMBER: 60/090472 APPLICATION NUMBER: 60/090535 APPLICATION NUMBER: 60/090540 APPLICATION NUMBER: 60/090542 60/090557 APPLICATION NUMBER: 60/090678 APPLICATION NUMBER: 60/090690 APPLICATION NUMBER: 60/090695 APPLICATION NUMBER: 60/090696 APPLICATION NUMBER: 60/090862 APPLICATION NUMBER: 60/090864 APPLICATION NUMBER: 60/091360 APPLICATION NUMBER: 60/091478 60/091544 60/091519 APPLICATION NUMBER: 60/091644 APPLICATION NUMBER: 60/091982 PRIOR APPLICATION NUMBER: 60/092182 APPLICATION NUMBER: 60/089952 APPLICATION NUMBER: 60/090246 APPLECATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090349 APPLICATION NUMBER: 60/090455 60/090429 APPLICATION NUMBER: 60/090431 60/0/0444 97.00.007.00 FILLING DATE: 1998-07-02 PE 19 NO 19 1998 07 02 PRIOR APPLICATION NUMBER: 60/0 PRIOR FILING DATE: 1998-07-02 FILLING DATE: 1998-07-07 PRIOR FILLING DATE: 1998-07-09 15.30 HE.51 1998 06:22 1998-06-24 1998-06-24 1998-06-24 1998-06-24 1998 06 24 1998-06 24 1918/06/26 1998-07-01 1998-07-01 1998 06 22 1998:06.24 1998-06-24 FILING DATE: 1998-06-24 1998 06:24 1998 06 24 1998 06 24 1998 U6 25 1998 06 25 42 90 864 1998 06 25 FILLING DATE: 1998 06 25 13.18.06 26 1998 06 25 PRIOR APPLICATION NUMBER:
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Obery Match West Local Similarity 93.30; Pred. No. 2.30003;

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FILING DATE: 1998-05-04
APPLICATION NUMBER: 60/088028
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APPLICATION NUMBER: 60/088810
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APPLICATION NUMBER: 60/089532
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PRIOR APPLICATION NUMBER: 60/090246
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APPLICATION NUMBER: 60/088030
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APPLICATION NUMBER: 60/088033
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APPLICATION NOMBER: 60/088738
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APPLICATION NUMBER: 60/088426
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APPLICATION NUMBER: 60/088861
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PRIOR FILING DATE: 1948-05-28
PRIOR APPLICATION NUMBER: 60/087607
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PRIOR APPLICATION NUMBER: 60/087769
PRIOR FILING DATE: 1998-06-02
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PRICE FILIND DATE: 1997-11-12
PRICE APPLICATION NUMBER: 60/06541
PRICE APPLICATION NUMBER: 60/06570
PRICE APPLICATION NUMBER: 60/066770
PRICE FILIND DATE: 1997-11-24
PRICE APPLICATION NUMBER: 60/075945
PRICE FILING DATE: 1998-02-25
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: Sequence 428, Application 08/09990444
: Publication No. 0820020193300A1
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PRIOR FILING DATE: 1997-66-16
PRIOR PELLIAN NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-03-20
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PRIOR APPLICATION NUMBER: 60/084500
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PRIOR APPLICATION NUMBER: 60/088025
PRIOR FILING DATE: 1998-06-04
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PRIOR APPLICATION NUMBER: 60/088021
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Gurney, Austin I.
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Williams, P. Mickey
Wood, William I.
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Gerritsen, Mary E.
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14; Conservative
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Botstein, David
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Eaton, Dan L.
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Tumas, Daniel
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Sequence 428, Application US/09989740 Publication No. USZ0020197674A1 GENERAL INPORMATION:
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PRIOR FILING DATE: 1998-07 09
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LICATION NUMBER: 60/090445
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ING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090695
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PRIOR FILING DATE: 1998-06-26
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PRIOR APPLICATION NUMBER: 60/091478
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PRIOR FILLING DATE: 1998-07-02
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                APPLICATION NUMBER: 60/090252
                                           LICATION NUMBER: 60/090254
                                                                       APPLICATION NUMBER: 60/090349
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PRIOR FILING DATE: 1998-00
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TITLE OF INVENTION: Secreted and Transmembrane Polypoptides and Nucleie IIILE OF INVENTION: Acids Encoding the Same
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PRIOR APPLICATION NUMBER 60,006,6770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 50,2025,945
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PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
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PRIOR APPLICATION NUMBER: 60/249787
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PRIOR FILLING DATE: 1997-10-17
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PRIOR FILING DATE: 1997 11-12
PRIOR APPLICATION NUMBER: 60/065411
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PRIOR APPLICATION UNBERGE 60/ORBOZE
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/OBB0ZE
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PRIOR APPLICATION NUMBER: 60/087106
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PRIOR APPLICATION NUMBER: 60/087607
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PRIOR FILING DATE: 1998-06-03
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PRIOR APPLICATION NUMBER: 60/088025
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PRIOR FILING DATE: 1998-06-04
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                                                                                                                                                                                                                                                                                                Grimaldi, J. Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Williams, P. Mickey
Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Stewart, Timothy A. Tumas, Daniel
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                                                                                                                                   Ferrara, Napoleone
Fong, Sherman
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                                                                                                                                                                                                                Gerritsen, Mary E.
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                                                                   Paoni, Nicholas F.
                                                                                                                                                                                         Gerber, Hansperer
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APPLICANI: AShkenazi, Avi J.
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                         Baker, Kevin P.
Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                  Napier, Mary A.
                                                                             Desnoyers, buc
Eaton, Dan L.
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PRIOR APPLICATION NUMBER: 60/088040

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PRIOR FILING IDATE: 1998 06-04
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Pred. No. 2.8e+03;
0; Mismatches 1; Indels
                                                                                                          PRIOR APPLICATION NUMBER: 60/090431
PRIOR APPLICATION NUMBER: 60/090435
PRIOR APPLICATION NUMBER: 60/090445
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PRIOR PLING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/09164
PRIOR PLING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/09164
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PRIOR PLING DATE: 1998-07-02
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PRIOR APPLICATION NUM
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: Sequence 428
: Publication No. 0520020198148A1
: GENERAL INFORMATION:
PRIOR APPLICATION NUMBER: 60/090355
                                                          PRIOR APPLICATION NUMBER: 60/090429
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APPLICANT: Ashkenazi,Avi J. APPLICANT: Baker,Kevin P.

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PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088655
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PRIOR APPLICATION NUMBER: 60/088810
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PRIOR APPLICATION NUMBER: 60/089440
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PRIOR APPLICATION NUMBER: 60/089598
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PRIOR APPLICATION NUMBER: 60/089801
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PRIOR APPLICATION NUMBER: 60/009907
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PRIOR FILING DATE: 1998-06-22
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PRIOR APPLICATION NUMBER: 60/090441
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                                                                                                          PRIOR APPLICATION NUMBER: 60/088217
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PRIOR FILING DATE: 1998-06-17
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PRIOR FILING DATE: 1998-06-11
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TITLE OF INVENTION: Secreted and Fransmountrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2730P1C14
CURRENT APPLICATION NUMBER: US/09/990,436
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PRIOR APPLICATION UNBERG 60/0049787
PRIOR FILING DATE: 1997 06-16
PRIOR APPLICATION NUMBER: 60/062250
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APPLICATION NUMBER: 60/065186
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FILING DATE: 1997-11-13
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                                                                                                                                                                                                                     Godowski,Paul J.
Grimaldi,J.Christopher
Gurney,Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Watanabe, Golin K.
Williams, P. Mickey
Wood, William I.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Stewart, Timothy A
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                                                                                Ferrara, Napoleone
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                                                                                                                                                                 Gerritsen, Mary E.
Goddard, Audrey
                                                                                                                                                                                                                                                                                                                                                                                    Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                    Roy, Margaret Ann
                                                                                                                                       Gerber, Hansperer
                                                                                                                                                                                                                                                                                                      Kljavin, Ivar J.
Botstein, bayid
                                                                                                                                                                                                                                                                                                                                      Napier, Mary A.
                            Desnoyers, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumas, Daniel
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                                                                                                             Fond, Sherman
                                                      Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                             Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR FILING DATE:
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APPLICANT: Zhand, Zemin
TITLE OF INVENITON: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENITON: Acids Encoding the Same
FILE REFERENCE: P2730P1C53
CURRENT APPLICATION NUMBER: US/09/991,181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR PLICATION NUMBER: 60/06531
PRIOR PLICATION NUMBER: 60/06531
PRICK FILING DATE: 1997-11-13
PRICK FILING DATE: 1997-11-13
PRICK FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/06570
PRICK APPLICATION NUMBER: 60/06570
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PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
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APPLICATION NUMBER: 60/078910
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APPLICATION NUMBER: 60/088033
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PRIOR APPLICATION NUMBER: 60/088655
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APPLICATION NUMBER: 602087106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 1998-06-02
APPLICATION NUMBER: 60/087609
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PRIOR FILING DATE: 1997-06-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/062250
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                                                           Grimaldi, J. Christopher
                                                                                                                                                                                                                                                              Watanabe, Colin K.
Williams, P. Mickey
Wood, William I.
                                                                                                                                                                                                                     Stewart, Timothy A.
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                                                                                                                                                                      Paoni, Nicholas F.
Roy, Margaret Ann
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                                                                              Gurney, Austin 1..
Kljavin, Ivar J.
                                   Godowski, Paul J.
                                                                                                                           Napier, Mary A.
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                                                                                                                                                                                                                                           Tumas, Daniel
                                                                                                                                                     Pan, James
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Pred. No. 2.3e+03;
0; Mismatches 1; Indels
PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090445

PRIOR APPLICATION NUMBER: 60/090445

PRIOR APPLICATION NUMBER: 60/090472

PRIOR APPLICATION NUMBER: 60/090535

PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090540

PRIOR PILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090540

PRIOR PILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090540

PRIOR PILING DATE: 1998-06-24

PRIOR PILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090696

PRIOR APPLICATION NUMBER: 60/090639

PRIOR APPLICATION NUMBER: 60/09184

PRIOR APPLICATION NUMBER: 60/09187

PRIOR APPLICATION NUMBER: 60/09187
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Publication no. US20020197615A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/092182
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Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity 93.3
Matches 14: Conservative
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Botstein, David
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Eaton, Dan L.
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APPLINE DATE: 1998 Ob. 24
APPLICATION NUMBER: 60/090472
Tive: DATE: 1998-06-24 APPLICATION NUMBER: 60/089600 FILLING DATE: 1998-06-17 APPLICATION NUMBER: 60/089653 1998-06-24 IIMRER: 60/090435 PRIOR FILING DATE: 1998-06-09 PRIOR APPLICATION NUMBER: 60/088734 PRIOR FILING DATE: 1998-05-10 FILING DATE: 1998-06-10 APPLICATION NUMBER: 60/088810 APPLICATION NUMBER: 60/088858 FILING DATE: 1998-06-11 APPLICATION NUMBER: 60/089440 APPLICATION NUMBER: 60/089512 FILING DATE: 1998:06-16 APPLICATION NUMBER: 60/089514 FILLING DATE: 1998-06-16 FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/089598 APPLICATION NUMBER: 60/089599 FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/089801 FILING DATE: 1998-06-18 APPLICATION NUMBER: 60/089952 FILING DATE: 1998-06-19 APPLICATION NUMBER: 60/090246 APPLICATION NUMBER: 60/090252 APPLICATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090429 60/090431 APPLICATION NUMBER: 60/090444 APPLICATION NUMBER: 60/090445 60/088748 PRIOR APPLICATION NUMBER: 60/088742 APPLICATION NUMBER: 60/088824 FILING DATE: 1998-06-10 APPLICATION NUMBER: 60/088826 APPLICATION NUMBER: 60/088861 APPLICATION NUMBER: 60/088876 APPLICATION NUMBER: 60/089105 APPLICATION NUMBER: 60/089532 PRIOR APPLICATION NUMBER: 60/089538 APPLICATION NUMBER: 60/089907 805580/09 JCATION NUMBER: 60/089947 ICATION NUMBER: 60/089948 APPLICATION NUMBER: 60/090349 PRIOR APPLICATION NUMBER: 60/090355 1998-06-10 1998-06-10 $1998 \cdot 06 \cdot 19$ 1998-06-24 1998-06-23 1998-06-10 1998-06-16 1998 06 18 1998-06-18 1998-06-19 1998-06-22 1998-06-22 1998 06-24 1998 06 24 1998 - 06 - 121998-06-17 1998 - 06 - 17 1998 06 22 1998-06-24 1998-06-17 1448-06-11 1448 06-11 LICATION NUMBER: LICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILING DAFE: FILLING DATE: FILLING DATE: FILLING DATE: APPL APPI APP No. PK10K PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR \frac{7}{2} \frac^ PRIOR PR TOR PRIOR PRIOR PRIOR PRIOR PKIOK PRIOR PRIOR PRIOR PRIOR PRIOR 1-R I -> R PRIOR PRIDE

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PRIOR APPLICATION NUMBER: 60/090540

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PRIOR APPLICATION NUMBER: 60/090542

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PRIOR APPLICATION NUMBER: 60/090676

PRIOR PLIAN; DATE: 1998-06. 25

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PRIOR PLIAN; DATE: 1998-06. 25

PRIOR APPLICATION NUMBER: 60/090690

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PRIOR APPLICATION NUMBER: 60/090696

PRIOR PLIAN; DATE: 1998-06. 26

PRIOR APPLICATION NUMBER: 60/090696

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PRIOR APPLICATION NUMBER: 60/091478

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Publication No. US20020198149A1
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Shrney,Austin L.
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APPLICANT: Baker,Kevin P.
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Pan, James

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PRIOR APPLICALLAN NUMBER: 60/090557
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PRIOR PLING DATE: 1997 10-17
PRIOR PLING DATE: 1997 10-17
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PRIOR APPLICATION NUMBER: 60/065111
PRIOR PLING DATE: 1997-11-24
PRIOR PELLING DATE: 1997-11-24
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PRIOR PELLING DATE: 1997-11-24
PRIOR PELLING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/075910
PRIOR PELLING DATE: 1998-03-26
PRIOR PELLING DATE: 1998-03-26
PRIOR PELLING DATE: 1998-03-28
PRIOR PELLING DATE: 1998-03-02
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APPLICATION NUMBER: 60/088748
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PRIOR FILING DATE: 1997-06-16
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                                                                                                                                Watanabe, Colin K.
Williams, P. Mickey
Wood, William I.
                                Roy, Margaret Ann
Stewart, Fimothy A.
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Paomi. Nicholas F.
                                                                                                   lumas, Daniel
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APPLICATION NUMBER: 60/089952 FILING DATE: 1993-06-19 APPLICATION NUMBER: 60/090429 APPLICATION NUMBER: 60/090435 APPLICATION NUMBER: 60/090445 APPLICATION NUMBER: 60/090472 APPLICATION NUMBER: 60/090535 PRIOR APPLICATION NUMBER: 60/090542 APPLICATION NUMBER: 60/088810 FILING PAIF: 1998-06-10 APPLICATION NUMBER: 60/088858 APPLICATION NUMBER: 60/089440 FILING DAFE: 1998-06-16 APPLICATION NUMBER: 60/089542 APPLICATION NUMBER: 60/089599 FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/089600 APPLICATE:N NUMBER: 60/089801 FILIN: DAIE: 1998-06-18 FILLING DATE: 1998-06-18 APPLICATION NUMBER: 60/089907 APPLICATION NUMBER: 60/089908 APPLICATION NUMBER: 60/089948 APPLICATION NUMBER: 60/090246 APPLICATION NUMBER: 60/090252 FILING DAIE: 1998-06-22 APPLICATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090349 APPLICATION NUMBER: 60/090355 APPLICATION NUMBER: 60/090441 APPLICATION NUMBER: 60/090444 APPLICATION NUMBER: 60/089105 APPLICATION NUMBER: 60/089514 APPLICATION NUMBER: 60/089538 APPLICATION NUMBER: 60/089598 APPLICATION NUMBER: 60/089947 APPELICATION NUMBER: 60/088826 APPLICATION NUMBER: 60/088861 APPLICATION NUMBER: 60/088876 APPLICATION NUMBER: 60/089512 APPLICATION NUMBER: 60/089653 1998-06-23 FILLING DATE: 1998-06-24 1998-06-24 PRIOR FILLING DATE: 1998-06-24 FILING DATE: 1993-06-19 1998-06-23 1998-06-24 1998-06-24 FILING DATE: 1998-06-24 1998-06-24 1998-06-10 1998-06-16 1998-06-16 1998-06-17 1998-06-17 1998-06-17 1998-06-17 FILING DATE: 1993 06 18 1994-06-18 FILING DATE: 1993-06-19 1998-06-22 FILING DATE: 1998-06-22 1998 · 06 - 11 1998-06-12 1998-06-11 1998-06-11 1998-06-FILLING DATE: FILLING DATE: FILING DATE: FILING DAIR: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILING LASE: FILING DATE: FILING DALE: FILLING DATE: FILLING DALE: FILING DATE: FILING DATE: FILING DALE: FILLING DATE: FILLING DATE: FILING DATE: PRIOR

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[11] B. OF INVENTION: Secreted and Transmembrane Polypoptides and Nucleic
                                          FILLE of INVENITOR: Acids Encoding the Same
                                                                      CURRENT APPLICATION NUMBER: US/09/989,744
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PRIOR PILLIN DATE: 10/1/10/17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILLIN: DATE: 10/2/11/12
PRIOR APPLICATION NUMBER: 60/065411
PRIOR FILLIN: DATE: 10/2/1/1/14
PRIOR PILLIN: DATE: 10/2/1/1/14
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PRIOR FILLING DATE: 1997-06-16
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Publication No. US20030004531A1
                                                                                                                                                              PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR PELLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
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PRIOR APPLICATION NUMBER: 60/091460
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Gurney, Austin I.
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Matches 14: Conservative
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APPLICANT: Baker,Kevin P.
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PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089532
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PRIOR APPLICATION NIMBER: 60/089801 PRIOR APPLICATION NUMBER: 60/089952 APPLICATION NUMBER: 60/090252 APPLICATION NUMBER: 60/090429 APPLICATION NUMBER: 60/090435 APPLICATION NUMBER: 60/089907 PRIOR APPLICATION NUMBER: 60/089908 PRIOR APPLICATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090355 APPLICATION NUMBER: 60/090431 PRIOR APPLICATION NUMBER: 60/088876 PRIOR APPLICATION NUMBER: 60/089598 PRIOR APPLICATION NUMBER: 60/089599 FILING DATE: 1998-06-24 FILING DATE: 1998-06-24 1998-06-24 FILING DATE: 1998-06-24 1998-06-24 1958-06-18 FILLING DAFE: 1998-06-18 1998-06-18 FILING DATE: 1998-06-22 1998-06-24 1998-06-24 FILLING DAFE: 1998-06-24 FILING DATE: 1998-06-24 FILING DATE: 1998-06-24 1668-06-24 1998-06-25 1998-06-25 PRIOR FILING DATE: 1998-06-17 FILING DATE: 1998-06-22 FILLING DATE: 1998-06-22 APPLICATION NUMBER: FILING DALE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: PRESERVED BY PRESE PRICE

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CURRENT FILLING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
                    ; Sequence 428, Application US/0997653
; Publication No. US20030008297A1
APPLICATION NUMBER: 60/090594
            FILLING DATE: 1998-06-25
APPLICATION NUMBER: 60/090695
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Gurney, Austin 1.
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Watanabe, Colin K.
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Wood, William I.
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Ferrara, Napoleone
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Goddard, Andrey
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APPLICANT: Baker, Kevin P.
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Matches 14; conservative
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APPLICATION NUMBER: 60/062250 APPLICATION NUMBER: 60/065411 APPLICATION NUMBER: 60/066770 APPLICATION NUMBER: 60/075945 FILING DATE: 1998-02-25 APPLICATION NUMBER: 60/078910 60/084600 APPLICATION NUMBER: 60/088026 APPLICATION NUMBER: 60/088029 LICATION NUMBER: 60/088030 APPLICATION NUMBER: 60/088043 APPLICATION NUMBER: 60/088326 TICATION NUMBER: 60/088202 LICATION NUMBER: 60/088212 APPLICATION NUMBER: 60/088217 LICATION NUMBER: 60/088655 APPLICATION NUMBER: 60/088734 APPLICATION NUMBER: 60/088738 60/088742 APPLICATION NUMBER: 60/088810 APPLICATION NUMBER: 60/088824 APPLICATION NUMBER: 60/088826 APPLICATION NUMBER: 60/088858 APPLICATION NUMBER: 60/088861 APPLICATION NUMBER: 60/088876 APPLICATION NUMBER: 60/089105 FILING DATE: 1998-06-12 FILING DATE: 1997-10-17 APPLICATION NUMBER: 60/065186 LICATION NUMBER: 60/083322 LICATION NUMBER: 60/087106 APPLICATION NUMBER: 60/087607 APPLICATION NUMBER: 60/087609 60/087759 LICATION NUMBER: 60/087827 APPLICATION NUMBER: 60/088021 APPLICATION NUMBER: 60/088025 LICATION NUMBER: 60/088028 60/088167 1498-06-10 1998-06-10 1997-11-13 1998-03-20 1998-04-28 1998-05-28 1998-06-09 1998 06:10 1998 06 10 1998-06 10 1997-11-12 1998-06-02 1998-06-02 1998-06-03 1998-06-04 1998-06-05 1998-06-10 FILLING DATE: 1997-06-16 1997 11-24 1998-05-07 1998-06-02 1998-06-04 1998-06-04 1998-06-04 1998-06-04 1998-06-04 1998-06-04 1998 06 04 30 90 8661 1998-06 05 1998-06-05 1998 06 11 13-90-86-6 1998 - 06 11 APPLICATION NUMBER: LICATION NUMBER: LICATION NUMBER: LICATION NUMBER: INC DATE: FILING DATE: FILLING DATE: FILING DATE: ING DATE: FILING DATE: FILLING DATE: INC. DATE: FILING DATE: FILING DATE: FILLING DATE: INC DATE: ING DATE: ING DATE: INC. DATE: FILLING DATE: INC DATE: FILING DATE: INC DATE: FILING DATE: FILING DATE: FILLING DATE: INCLUATE: FILING DATE: FILLING DATE: FILLING DATE: ING DATE FILLING DATE: FILING DATE FILLING DATE APP Ž APP ۸ŀŀ PRIOR PRIOR PK 10 K * * * * * * * * PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR 7 7 7 7 7 7 7 7 7 2 7 7 7 7 7 7 7 7 7 7 PR IOK PRIOR PRIOR PRIOR PRIOR 11K | 0 K PRIOR PRIOR PRIOR PRICE PRIOR PRIOR PRIOR

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FILING DATE: 1998-04-28
APPLICATION NUMBER: 60/084600
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APPLICATION NUMBER: 60/088326
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APPLICATION NUMBER: 60/088167
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FILING DATE: 1998-06-05
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APPLICATION NUMBER: 60/088217
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APPLICATION NUMBER: 60/088655
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APPLICATION NUMBER: 60/088876
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PRIOR APPLICATION NUMBER: 60/089440
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APPLICATION NUMBER: 60/087106
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FILING DATE: 1998-06-02
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FILING DATE: 1998-06-02
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APPLICATION NUMBER: 60/088021
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APPLICATION NUMBER: 60/088026
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PRIOR FILING DATE: 1998-06-26

PRIOR APPLICATION NUMBER: 60/090863

PRIOR PILING DATE: 1998-06-26

PRIOR PILING DATE: 1998-06-26

PRIOR FILING DATE: 1998-07-01

PRIOR FILING DATE: 1998-07-01

PRIOR FILING DATE: 1998-07-02

PRIOR PELLING DATE: 1998-07-01

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PRIOR APPLICATION NUMBER: 60/091519

PRIOR PELLING DATE: 1998-07-02

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PRIOR PELLING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091636

PRIOR PELLING DATE: 1998-07-02

PRIOR APPLICATION NUMBER: 60/091982

PRIOR PELLING DATE: 1998-07-07

PRIOR PELLING DATE: 1998-07-07
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PRIOR FILING DATE: 1997-11-12
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PRIOR APPLICATION NUMBER: 60/049787
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Williams, P. Mickey
Wood, William I.
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Stewart, Timothy A.
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Gerritsen, Mary E.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity 93.3 nes 14; Conservative
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FILLING DATE: 1998-06-17 APPLICATION NUMBER: 60/089538 PRIOR APPLICATION NUMBER: 60/090252 PRIOR PILING DATE: 1948-06-22 PRIOR PPLICATION NUMBER: 60/090254 PRIOR PILING DATE: 1998-06-22 PRIOR APPLICATION NUMBER: 60/090449 PRIOR FILING DAFE: 1998-06-24 PRIOR APPLICATION NUMBER: 60/090355 FILING DATE: 1998-06-23 APPLICATION NUMBER: 60/090429 FILING DATE: 1998-06 17 APPLICATION NUMBER: 60/089600 FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/089653 PRIOR FILING DATE: 1998-06-18 PRIOR APPLICATION NUMBER: 60/089907 805680/09 236680/09 PRIOR FILING DATE: 1998-06-19 PRIOR APPLICATION NUMBER: 60/090246 60/090445 APPLICATION NUMBER: 60/089598 APPLICATION NUMBER: 60/089599 PRIOR APPLICATION NUMBER: 60/089801 PRIOR APPLICATION NUMBER: 60/089947 60/089948 APPLICATION NUMBER: 60/090431 APPLICATION NUMBER: 60/090435 APPLICATION NUMBER: 60/090444 LICATION NUMBER: 60/090472 APPLICATION NUMBER: 60/090535 PRIOR APPLICATION NUMBER: 60/090540 60/090542 60/090557 873040703 APPLICATION NUMBER: 60/090690 PRIOR APPLICATION NUMBER: 60/090694 PRIOR FILING DATE: 1998-06-25 PRIOR APPLICATION NUMBER: 60/090862 PRIOR APPLICATION NUMBER: 60/091360 APPLICATION NUMBER: 60/091478 FILING DATE: 1998-07-02 APPLICATION NUMBER: 60/090676 PRIOR APPLICATION NUMBER: 60/090695 JCATION NUMBER: 60/090696 1998-06-19 1998-06 17 1998-06-18 1998-06-18 61 90-8661 1998 06 19 97 - 90 1998 - 06 - 17 1998-06-17 1998-06-22 1998-06-24 1998-06-24 1998 • 06 • 24 1998 - 06 - 24 1998-06-24 1998-06-24 1998 06 24 1998 - 06 25 1998-06-26 1998-06-24 1998-06-24 1998-06-25 1998-06-25 1998 06 24 1998-06 25 1998-06 25 1998-07 01 APPLICATION NUMBER: APPLICATION NUMBER: PRIOR FILING DATE: 1998 OF PRIOR APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: LICATION NUMBER: APPLICATION NUMBER: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILING DATE: PRIOR FILING DATE: FILING DALE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DAFF: ING DATE: ING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE APP 7.5 APP PRIOR PRIOR PRIOR A PRIOR PR C K PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR 75174

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THILE OF INVENTION: Second of and Fransmembrane Polypoptides and Nucleic HILLS OF INVENTION: Acids Encoding the Same FILE REFERENCE: P27 (opto)
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Pred. No. 2.4e(03;
0; Mismatches 1; Indels
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                                                                         PRIOR FILING DATE: 1°08-07-09-16.26
PRIOR FILING DATE: 1°08-07-02-16.36
PRIOR FILING DATE: 1°08-07-02-16.37
PRIOR FILING DATE: 1°08-07-07-16.37
PRIOR FILING DATE: 1°08-07-07
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 428, Application US/09990438; Publication No. US20030027754A1; GENERAL INFORMATION:
                                      PRIOR APPLICATION NUMBER: 60Z091519
PRIOR FILLING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
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PRIOR APPLICATION NUMBER: 60/049787
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PRIOR FILLIN; DATE: 1997-11-24
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PRIOR FILLING DATE: 1998-63-20
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Omroy,Austin L.
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Wood, William I.
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Fong, Sherman
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Goddard, Andrey
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Botstein, David
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PRIOR APPLICATION NUMBER: 60/083422

PRIOR FILLING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088858
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PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILLING DATE: 1998-06-11
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PRIOR APPLICATION NUMBER: 60/089105
PRIOR PILLING DATE: 1998-06-16
PRIOR FILLING DATE: 1998-06-16 PRIOF APPLICATION NUMBER: 60/085598 PRIOK FILINI DATE: 1998-06-17 PRIOK APPLICATION NUMBER: 60/089599 PRIOK FILING DATE: 1998-06-17 PRIOR APPLICATION NUMBER: 60/088025 PRIOR FILLING DATE: 1998-05-04 PRIOR APPLICATION UNMBER: 60/088029 PRIOR FILLING DATE: 1998-05-04 PRIOR APPLICATION NUMBER: 60/088029 PRIOR APPLICATION NUMBER: 60/008167 PRIOR FILLING DATE: 1998-66-05 PRIOR PLICATION NUMBER: 60/0088202 PRIOR FILLING DATE: 1998-06-05 FILING DATE: 1998-06-05 APPLICATION NUMBER: 60/088212 FILING DATE: 1998-06-05 APPLITATION NUMBER: 60/088655 APPLICATION NUMBER: 60/084600 FILING DATE: 1998-05-07 FILING DATE: 1998-06-04 APPLICATION NUMBER: 60/088326 APPLICATION NUMBER: 60/088734 FILING DATE: 1998-06-10 APPLICATION NUMBER: 60/088824 FILING DATE: 1998-06-10 APPLICATION NUMBER: 60/089538 APPLICATION NUMBER: 60/087106 PRIOR APPLICATION NUMBER: 60/087607 PRIOR FILING DATE: 1998-06-02 PRIOR APPLICATION NUMBER: 60/087609 PRIOR FILING DATE: 1998-06-02 PRIOR APPLICATION NUMBER: 60/087759 PRIOR FILING DATE: 1998-06-02 PRIOR APPLICATION NUMBER: 60/087827 PRIOR FILING DATE: 1998-06-03 PRIOR APPLICATION NUMBER: 60/088025 PRIOR FILLING DATE: 1998-06-04 FILING DATE: 1998-06-04 APPLICATION NUMBER: 60/088030 APPLICATION NUMBER: 60/088033 APPLICATION NUMBER: 60/088217 APPLICATION NUMBER: 60/088738 APPLICATION NUMBER: 60/088742 APPLICATION NUMBER: 60/088810 APPLICATION NUMBER: 60/088826 APPLICATION NUMBER: 60/088021 1998-06-10 1998-06 09 1998-06-10 1998-06-10 1998-06 17 1998-06-04 1998-06-02 1998-06-04 1998-06-04 1998-06-05 FILING DATE: 1998-04-28 1998-05-28 FILLING DATE: ILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DAFE: FILLING DATE: FILLING DATE: HING DATE: FILING DATE: PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR A PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR PRIOR RIOR

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Pred. No. 2.3e+0.4;
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Publication No. US20030027985A1
            PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
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Gurney,Austin L.
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Williams, P. Mickey
Wood, William I.
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Goddard, Audrey
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Matches 14, Conservative
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Botstein, David
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PRIOR FILING DATE: 1998-06-04
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PRIOR APPLICATION NUMBER: 60/088217
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PRIOR FILLING DATE: 1998-06-10
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PRIOR PILING CATE: 1998-06-18
APPLICATION NUMBER: 60/087609
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PRIOR APPLICATION NUMBER: 60/088033
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PRIOR FILING DATE: 1998-06-12
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PRIOR PELLOATION NUMBER: 60/090349
PRIOR PELLING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090540
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PRIOR PELLING DATE APPLICATION NUMBER: 60/090696 APPLICATION NUMBER: 60/090863 APPLICATION NUMBER: 60/091360 APPLICATION NUMBER: 60/091478 APPLICATION NUMBER: 60/091544 APPLICATION NUMBER: 60/091519 APPLICATION NUMBER: 60/091633 APPLICATION NUMBER: 60/091978 APPLICATION NUMBER: 60/091982 APPLICATION NUMBER: 60/092182 FILING DATE: 1998-07-09 PRIOR FILLING DATE: 1998-06-18 PRIOR APPLICATION NUMBER: 60/089908 APPLICATION NUMBER: 60/090862 APPLICATION NUMBER: 60/091626 PRIOR APPLICATION NUMBER: 60/089947 1998-07-07 1998-06-19 1998-06-25 FILING DATE: 1998-06-26 1998-07-01 1998-07-01 FILING DATE: 1998-07-02 1998-07-02 1998-07-02 1998-07-07 1948-06-18 1998-06-26 1998-07-02 FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DATE: FILING DAFE: FILLING DATE: PR 1 - K PRIOR

TILLE OF INVENITON: Secreted and Transmembrane Polypeptides and Nucleic TILLE OF INVENITON: Acids Encoding the Same FILE REFERENCE: P2730P1044 Sapp . : 63.8%: Score 14.4; 108.9; Length 21; 93.3%: Pred, No. 2.4e*04; ive 0; Mismatches 1; Indels CURRENT APPLICATION NUMBER: US/09/997,428 Application US/09997428 o. US20030027162A1 PRIOR APPLICATION NUMBER: 60/049787 PRIOR FILING DATE: 1997-06-16 PRIOR FILLING DATE: 1997-10-17 PRIOR APPLICATION NUMBER: 60/065186 PRESE FILING DATE: 1997-11-12 PRESE APPLICATION NUMBER: 60/065411 PRESE FILING DATE: 1997-11-13 PRIOR FILING DATE: 1997-11-13 PRIOR APPLICATION NUMBER: 60/066770 PREOK APPLICATION NUMBER: 60/075945 FILLING DATE: 1998-05-07 APPLICATION NUMBER: 60/087106 PRIOR APPLICATION NUMBER: 60/087607 PRIOR APPLICATION NUMBER: 60/087759 PRIOR APPLICATION NUMBER: 60/087827 PRIOR LILING DALE: 1998-06-03 PRIOR APPLICATION NUMBER: 60/088021 PRIOR APPLICATION NUMBER: 60/062250 PRIOR APPLICATION NUMBER: 60/078910 APPLICATION NUMBER: 60/08+422 PRIOR APPLICATION NUMBER: 60/084600 PRIOR FILING DATE: 1998-06-02 PRIOR APPLICATION NUMBER: 60/087609 Grimaldi, J.Christopher 2001-11-15 Watanabe, Colin K. Williams, P. Mickey Wood, William I. koy, Margaret Ann Stewart, Timothy A. 1998-03-20 1998-02-25 PRIOR FILING DATE: 1998-04-28 FILING DATE: 1998-05-28 Ferrara, Napoleone FILING DATE: 1997-11-24 1998-06-02 Gerritsen, Mary E. Goddard, Audrey Paomi, Nicholas F. Gerber, Hanspeter Godowski, Paul J. Gurney, Austin L. APPLICANI: Ashkenazi,Avi J. APPLICANI: Baker.Kevin P. Kljavin, Ivar J. Best Local Similarity 93.3 Matches 14; Conservative Baker, Kevin P. Rotstein, David Napier, Mary A. besnovers, the Z ACCONTRABINACIONO 16 3 ACCAALGGTAGGGGG 17 Fond, Sherman Tamas, Daniel Shana, Zemin Eaton, Dan 1. Pan, James CURRENT FILING DATE: GENERAL INFORMALION: PRIOR FILING DATE: FILLING DALE: FILING DATE: US-09-997-428-428 Sequence 428, Applying four fraction No. APPLICANT:
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PRIOR APPLICATION NUMBER: 60/088026 PRIOR APPLICATION NUMBER: 60/088030 APPLICATION NUMBER: 60/088033 PRIOR APPLICATION NUMBER: 60/088810 PRIOR APPLICATION NUMBER: 60/089440 PRIOR APPLICATION NUMBER: 60/088025 APPLICATION NUMBER: 60/088028 PRIOR APPLICATION NUMBER: 60/088029 APPLICATION NUMBER: 60/088326 APPLICATION NUMBER: 60/088167 PRIOR APPLICATION NUMBER: 60/088202 PRIOR APPLICATION NUMBER: 60/088212 PRIOR APPLICATION NUMBER: 60/088217 PRIOR APPLICATION NUMBER: 60/088655 APPLICATION NUMBER: 60/088734 PRIOR APPLICATION NUMBER: 60/088738 PRIOR APPLICATION NUMBER: 60/088742 PRIOR APPLICATION NUMBER: 60/088824 978880/09 PRIOR APPLICATION NUMBER: 60/088858 APPLICATION NUMBER: 60/088861 60/088876 PRIOR APPLICATION NUMBER: 60/089105 PRIOR APPLICATION NUMBER: 60/089512 PRIOR APPLICATION NUMBER: 60/089514 PRIOR APPLICATION NUMBER: 60/089532 1998 06 04 1998: 06:04 1998-06-04 1998 - 06 - 04 1998-06-04 1998-06-09 01-90-8661 1998-06-10 01 - 90 - 86611998 06 10 1998 - 06 - 10 1998 - 06 - 10 91-90-8661 1998-06-16 PRIOR FILING DATE: 1998-06-04 1998-06-04 1998-06-05 1998-06-05 1998-06-05 91-90-8661 1998-06-04 1998-06-05 1998 - 06 - 121998-06-17 1998-06-11 1998 06-11 1998-06-11 PRIOR APPLICATION NUMBER: PRIOR APPLICATION NUMBER: PRIOR FILING DATE: PRIOR FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE: PRIOR FILING DATE: PRIOR FILLING DATE: PRIOR FILING DATE: PRIOR FILING DATE: PRIOR FILING DATE: FILLING DATE: FILING DATE: PRIOR FILLING DATE: FILING DATE: FILLING DATE: PRIOR FILLING DATE: PRIOR FILLING DATE: PRIOR FILLING DATE: FILING DATE: PRIOR FILING DATE: PRIOR FILLING DATE: FILLING DATE: PRIOR FILING DAFE: PRIOR FILING DATE: PRIOR FILLING DATE: PRIOR PRIOR

PRIOR APPLICATION NUMBER: 60/090246 FILING DATE: 1998-06-23 APPLICATION NUMBER: 60/090355 APPLICATION NUMBER: 60/090540 APPLICATION NUMBER: 60/090864 PRIOR APPLICATION NUMBER: 60/089952 PRIOR APPLICATION NUMBER: 60/090252 PRIOR APPLICATION NUMBER: 60/090254 APPLICATION NUMBER: 50/090349 APPLICATION NUMBER: 60/090429 APPLICATION NUMBER: 60/090431 APPLICATION NUMBER: 60/090445 APPLICATION NUMBER: 60/090445 APPLICATION NUMBER: 60/090472 APPLICATION NUMBER: 60/090535 APPLICATION NUMBER: 60/090542 APPLICATION NUMBER: 60/090676 APPLICATION NUMBER: 60/090678 APPLICATION NUMBER: 60/090690 APPLICATION NUMBER: 60/090695 APPLICALTON NUMBER: 60/090862 APPLICATION NUMBER: 60/091360 60/091478 60/090444 APPLICATION NUMBER: 60/090694 APPLICATION NUMBER: 60/090696 PRIOR APPLICATION NUMBER: 60/091544 FILLING DATE: 1298 OF 13 FILING DATE: 1998-06-24 1998-06-24 1998-06-24 1998 06 24 13.18 05 24 FILING DATE: 1998-06-24 1998-06-22 PRIOR FILLING DATE: 1298-06-22 1998 06 22 1398-06-24 1998-06 24 FILING DAFE: 1998-06-24 1998-06-24 1998 06:24 1998-06-25 1998 06 25 1998 06 26 1938 OF 26 PSB 07 01 FILLING DATE: 1938 07 02 1338 06 25 13.30 86.61 1998 06 25 FILING DATE: 1998 O6 25 APPLICATION NUMBER: APPLICATION NUMBER: APPLICATION NUMBER: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DALE: FILING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLING DATE: LING DATE: FILLING DATE: LING DALE: FILLING DATE: FILLING DATE FILLING DATE

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APPLICATION NUMBER: 60/089440
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APPLICATION NUMBER: 60/088326
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PRIOR FILING DATE: 1997-10-17
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PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
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GENERAL INFORMATION:
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PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087607
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PRIOR FILING DATE: 1998-04-28
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Gurney, Austin L.
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Watanabe, Colin K.
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Ferrara, Napoleone
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Botstein,David
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FILE REFERENCE: P2730P102
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| PRIOR FILLIN TABLE: 1998 0.2 Z5
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| PRIOR FILLIN: DATE: 1998 0.4 Z0
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| PRIOR APPLICATION NUMBER: 60/084502
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PRIOR FILING DATE: 1997-10-17
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PRIOR APPLICATION NUMBER: 60/08/106
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PRIOR APPLICATION NUMBER: 60/088021
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Lumas, Laniel
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APPLICATION NUMBER: 60/090678
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FILING DATE: 1998-07-09
                APPLICATION NUMBER: 60/090349
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APPLICATION NUMBER: 60/090355
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LICATION NUMBER: 60/090535
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Sequence 428, Application US/09902111 Publication No. US20030032023A1

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PRIOR APPLICATION NUMBER: 60/088029

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Sde 63.8%; Score 13.4; DB 9; Length 21; Indels Pred. No. 2.3e+04; 0; Mismatches 1; Sequence 428. Aprilication US/0989726 Dublication No. US2003004047341 GENERAL INDOMENTALINE APRILICANT: Ashkonath Na. APRILICANT: Baken Kevin P. APRILICANT: Botstein David APRILICANT: Testopers, Inc. APRILICANT: Festons David APRILICANT: Festons David PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
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PRIOR APPLICATION NUMBER: 60/0913-60
PRIOR PPLING DATE: 1998-07-02
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PRIOR FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090557 FILING DATE: 1598-06-24 APPLICATION NUMBER: 60/090676 APPLICATION DATE: 1998-06-25 APPLICATION NUMBER: 60/090678 PRIOR APPLICATION NUMBER: 60/092182 FILENC DATE: 1998-06-24 APPLICATION NUMBER: 60/090444 APPLICATION NUMBER: 60/090540 FILING DATE: 1998-06-24 APPLICATION NUMBER: 60/090542 93,38; 1998-06-24 1998-06-24 1998-06-24 1498-06-24 PRIOR FILING DATE: 1998-07-09 14; Canservative 4 ACCANTGRAMMONT 17 Z ACCOATGRAMMENT 16 Query Match Best Local Similarity Matches 14; Censery FILING DALE: FILING DAIR: FILING DATE: FILING DATE: RESULT 19 IIS=09-989-726-428

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                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/989,726
CURRENT FILING DATE: 2001-11-19
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PRICE APPLICATION NUMBER: 60/049787
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LICATION NUMBER: 60/066770
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                                                                                                 Grimaldi, J. Christopher
                                                                                                                                                                                                                                                                                             Williams, P. Mickey
                                                                                                                                                                                                                Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                           Watanabe, Colin K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1997-10-17
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                                          Gerritsen, Mary E.
                                                                                                                   Gurney, Austin L.
Kljavin, Ivar J.
                                                                                                                                                                                                Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                 Wood, William I.
                      Gerber, Hanspeter
                                                                            Godowski, Paul J.
                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: P2740P1060
                                                          Goddard, Audrey
                                                                                                                                                         Napier, Mary A.
                                                                                                                                                                                                                                                      Tumas, Daniel
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Fond, Sherman
                                                                                                                                                                                Pan, James
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ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic LITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: P2730P.C49
                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/09/990,437
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PRIOR APPLICATION UNMERER: 60,0065186
PRIOR FILING DAIE: 1997-11-12
PRIOR APPLICATION NUMBER: 60,0065411
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APPLICATION NUMBER: 60/088026
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APPLICATION NUMBER: 60/088033
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APPLICATION NUMBER: 60/088167
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PRIOR FILING FATE: 1998-06-10
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PRICH APPLICATION NUMBER: 60Z049787
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PRIOR APPLICATION NUMBER: 60/087609
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APPLICATION NUMBER: 60/088029
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                                                                                                                                                  Williams, P. Mickey Wood, William I.
                                                                                             Stewart, Timothy A.
                                                                                                                              Watamabe, Colin K.
                                      Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
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                   Napier, Mary A.
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FILING DATE: 1998-07-07
                                                                                     APPLICATION NUMBER: 60/090540
FILLING DATE: 1998-06-24
APPLICATION NUMBER: 60/090542
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FILING DATE: 1998-06-25
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APPLICATION NUMBER: 60/090696
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FILING DATE: 1998-07-02
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PRIOR APPLICALION NUMBER: 60/092182
               APPLICATION NUMBER: 60/090472
                                                    APPLICATION NUMBER: 60/090535
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Godowski, Paul J.
Grimaldi, J.Christopher
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atches 14; Conservative
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Gerber, Hanspeter
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APPLITANT: Baker.Kevin P.
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Botstein, David
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Eaton, Dan L.
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PRIOR APPLICATION NUMBER: 60/090472 PRIOR FILING DATE: 1998-06-24 FILLING DATE: 1998-06-24 APPLICATION NUMBER: 60/090540 FILLING DATE: 1998-06-24 60/089532 APPLICATION NUMBER: 60/089653 FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/089952 PRIOR APPLICATION NUMBER: 60/090349 PRIOR FILING DATE: 1998-06-23 APPLICATION NUMBER: 60/090355 APPLICATION NUMBER: 60/090441 FILLING DATE: 1998-06-24 APPLICATION NUMBER: 60/090445 PRIOR APPLICATION NUMBER: 60/090444 PRIOR FILING DATE: 1998-06-24 PRIOR APPLICATION NUMBER: 60/090535 APPLICATION NUMBER: 60/088742 APPLICATION NUMBER: 60/088810 APPLICATION NUMBER: 60/088826 APPLICATION NUMBER: 60/088858 APPLICATION NUMBER: 60/088861 APPLICATION NUMBER: 60/088876 APPLICATION NUMBER: 60/089105 APPLICATION NUMBER: 60/089440 APPLICATION NUMBER: 60/089512 APPLICATION NUMBER: 60/089514 APPLICATION NUMBER: 60/089538 APPLICATION NUMBER: 60/089598 APPLICATION NUMBER: 60/089599 APPLICATION NUMBER: 60/089600 APPLICATION NUMBER: 60/089801 FILING DATE: 1998~06~18 APPLICATION NUMBER: 60/089907 APPLICATION NUMBER: 60/089908 APPLICATION NUMBER: 60/089947 LICATION NUMBER: 60/089948 APPLICATION NUMBER: 60/090246 APPLICATION NUMBER: 60/090252 APPLICATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090429 PRIOR APPLICATION NUMBER: 60/090445 PRIOR APPLICATION NUMBER: 60/088824 PRIOR FILLING DAIR: 1998-06-10 PRIOR APPLICATION NUMBER: 60/0 01-90-8661 1998-06-10 1998-06-10 1998-06-18 1998-06-19 1998-06-19 1998-06-23 1998 - 06 - 101958 06 16 1998-06-16 1998-06-17 1998-06-17 1998-06-17 1998-06-18 1998-06-19 1998-06-22 1998-06-24 1998-06-24 1998-06-24 1998-06-12 1998-06-16 1998-06-17 1998-06-17 1998-06-22 1998-06-22 1998-06-11 1498-06-11 1998-06 11 APPLICATION NUMBER: FILING DATE: FILING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: ING DATE: FILING DATE: FILLING DAFE: FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: FILING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: FILING DATE: FILLING DATE FILING DATE FILING DATE FILING DATE FILLING DATE PRIOR PRIOR PRIOR PRIOR PR 10 R PK 10 K PRIOR PRIOR PRIOR PRIOR 2012 PRIOR

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Publication No. US20030044806A1
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PRIOR PILING TAILE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/0916.26
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Stewart, Timothy A.
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Paoni, Nicholas F.
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APPLICANI: Baker,Kevin P.
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Botstein, bavid
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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic RITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: P2730PIC28
                                                        CURRENT APPLICATION NUMBER: US/09/998,156
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FILING DATE: 1998-06-10
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Watanabe, Colin K.
Williams, P. Mickey
Wood, William I.
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PRIOR PELLIN DATE: 1998-07 01
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PRIOR APPLICATION NUMBER: 60/091549
PRIOR PELLIN: DATE: 1998-07 01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR PELLIN: DATE: 1998-07 02
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Patent No. US20020072067A1
  PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
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APPLICATION NUMBER: 60/090863
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FILING DATE: 1998-07-02
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PRIOR FILLING DATE: 1998-07-09
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Goddard, Audrey
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Best Local Similarity 93.43
Matches 14; Conservative
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Botstein, David
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PRIOR APPLICATION NUMBER:
PRIOR FILING DATE: 1998-06
PRIOR APPLICATION NUMBER:
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                                                                 APPLICATION NUMBER:
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PREDE FILIN: DATE: 1948-06-12
PRICIS APPLICATION NUMBER: 60/2094(2)
PRICIS APPLICATION NUMBER: 60/2094(3)
PRICIS APPLICATION NUMBER: 60/2094(4)
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APPLICANT: Thata, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleical LITLE OF INVENTION: Acids Encoding the Same
FILE REPERIOR: P2730P1652
CURRENT APPLICATION UMBER: US/09/989,723
CURRENT FILLING DATE: 2001-11-19
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ive 0; Mismatches 1;
                                                                                          : Sequence 428, Application US/09989723
: Patent No. USzonZ0072092Al
: GENERAL INFORMATION:
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PRIOR FILING DAIR: 1998-07-07
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PRIOR APPLICATION NUMBER: 60/06/250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/090696
                              APPLICATION NUMBER: 60/090862
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PRIOR FILLING DATE: 1998-06-26
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Williams, P. Mickey
Wood, William :
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Stewart, Fimothy A.
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                 1998-06-25
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Godowski, Paul J.
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                                                FILLING DATE:
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US-09-989-724-428
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PRIOR APPLITATION NUMBER: 60/065186

PRIOR APPLICATION NUMBER: 60/089532 PRIOR APPLICATION NUMBER: 60/089538 PRIOR FILING DATE: 1998-06-17 PRIOR APPLICATION NUMBER: 60/089598 PRIOR FILING DATE: 1998-06-17 PRIOR APPLICATION NUMBER: 60Z089599 PRIOR FILING DATE: 1998-06-17 PRIOR APPLICATION NUMBER: 60/089947 PRIOR FILING DATE: 1998-06 19 PRIOR APPLICATION NUMBER: 60Z090435 PRIOR FILING DATE: 1998-06-24 FILLING DATE: 1998-06-24 APPLICATION NUMBER: 602090545 PRIOR APPLICATION NUMBER: 60/090540 PRIOR APPLICATION NUMBER: 60/0900863 PRIOR FILLING DATE: 1908-06-26 PRIOR APPLICATION NUMBER: 60/091-860 APPLICATION NUMBER: 60/089801 60/089907 APPLICATION NUMBER: 60/089908 PRIOR APPLICATION NUMBER: 60/089948 APPLICATION NUMBER: 60/089952 PRIOR APPLICATION NUMBER: 60/090246 PRIOR APPLICATION NUMBER: 60/090252 JCATION NUMBER: 60/090254 APPLICATION NUMBER: 60/090349 APPLICATION NUMBER: 60/09035 PRIOR APPLICATION NUMBER: 60/090429 APPLICATION NUMBER: 60/090431 APPLICATION NUMBER: 60/090444 APPLICATION NUMBER: 60/090445 APPLICATION NUMBER: 60/090472 PRIOR APPLICATION NUMBER: 60/090542 PRIOR APPLICATION NUMBER: 60/090557 APPLICATION NUMBER: 60/090676 APPLICATION NUMBER: 60/090678 APPLICATION NUMBER: 60/090690 APPLICATION NUMBER: 60/090694 469060/09 APPLICATION NUMBER: 60/090696 APPLICATION NUMBER: 60/090862 APPLICATION NUMBER: 60/089653 PF-90-19 13.48 06.24 1998 Of 23 PRIOR FILLING DATE: 1998 OF 16 1998 06 17 1338 06 18 1598:06 18 1998:06 18 1998 OE 19 1998-06-22 1998-06-22 1998-06-22 1998 06 24 PRIOR FILING DATE: 1998-06-24 1998-06-24 FILING DATE: 1998 06 24 1998 06 24 1998 O6 24 1998 06 24 99B 06 17 1338-06-17 1998 06 24 1998-06-25 1998 06 25 13.38 104.25 57 90 RG-51 FILING DATE: 1998-06-25 13.30 80.61 APPLICATION NUMBER: PRIOR APPLICATION NUMBER: APPLICATION NUMBER: PRIOR FILING DATE: PRIOR FILING DATE: PRIOR FILING DATE: PRIOR FILING DATE: FILLING DATE: FILLING DATE: PRIOR FILING DATE: FILLING DATE: FILLING DATE: FILLING DATE: PRIOR FILING DATE: PRIOR FILLING DATE: PRIOR APPLICATION PRIOR FILLING DATE: FILIN: DATE: PRIOR FILING DATE: FILLING DATE: PRIOR FILING DATE: PRIOR FILLING DATE: PRIOR FILING DATE: FILLING DATE: FILLING DATE: FILLING DATE: FILLIN; DATE: FILLING DATE: FILLING DATE: FILLING DATE PRIOR APP PRIOR PRIOR PRIOK PRIOK PRESE PRIOR FRICK \frac{7}{5} \frac{7}{5} \frac{7}{5} \frac{7}{5} PRIOR PRIOR PRIOR 무도그목 PRIOR PRICK PRICE PRIOR PRIOR 동민육 PRIOR PRIOR PRIOR PRIOR PRICH 논문문 동민국 FRICK PRIOR

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PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 66/091478
PRIOR ETLING DATE: 1998-07-02
PRIOR ETLING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR APPLICATION NUMBER: 60/091519
PRIOR PRILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091626
PRIOR APPLICATION NUMBER: 60/09163
PRIOR APPLICATION NUMBER: 60/09163
PRIOR FILING DATE: 1998-07-02
PRIOR FILING DATE: 1998-07-07
PRIOR FILING DATE: 1998-07-07
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/09198
PRIOR APPLICATION NUMBER: 60/09198
PRIOR APPLICATION NUMBER: 60/09198
PRIOR APPLICATION NUMBER: 60/092182
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-07
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Patent No. US20020072496A1
GENERAL INFORMATION:
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PRIOR APPLICATION NUMBER: 60/062250
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PRIOR APPLICATION UNBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
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Williams, P. Mickey
Wood, William I.
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Roy, Margaret Ann
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Matches 14; Conservative
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Botstein,David
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Eaton, Dan L.
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APPLICATION NUMBER: 60/089512
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APPLICATION NUMBER: 60/089598
                    FILING DATE: 1998-03-20
APPLICATION NUMBER: 60/083322
FILING DATE: 1998-04-28
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APPLICATION NUMBER: 60/088028
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FILING DATE: 1998-06-04
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APPLICATION NUMBER: 60/088217
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APPLICATION NUMBER: 60/088734
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APPLICATION NUMBER: 60/08861
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APPLICATION NUMBER: 60/078910
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APPLICATION NUMBER: 60/087106
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APPLICATION NUMBER: 60/087607
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FILING DATE: 1998-06-02
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APPLICATION NUMBER: 60/088026
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APPLICATION NUMBER: 60/089600 APPLICATION NUMBER: 60/089653 FILING DATE: 1998-06-17 APPLICATION NUMBER: 60/090245 FILING DATE: 1998-06-22 FILING DAFE: 1998-06 22 APPLICATION NUMBER: 60/090252 APPLICATION NUMBER: 60/090254 FILING DATE: 1998-06-22 FILING DATE: 1998-06-23 APPLICATION NUMBER: 60/090355 APPLICATION NUMBER: 60/090429 APPLICATION NUMBER: 60/090435 PILLING DATE: 1998-06-24 ING DATE: 1998-06-24 LICATION NUMBER: 60/090445 LICATION NUMBER: 60/090472 ING DATE: 1998-06:24 LICATION NUMBER: 60/090862 APPLICATION NUMBER: 60/090863 APPLICATION NUMBER: 60/091519 FILLING DATE: 1998-07-02 APPLICATION NUMBER: 60/089599 APPLICATION NUMBER: 60/089801 60/089907 APPLICATION NUMBER: 60/089908 APPLICATION NUMBER: 60/089947 APPLICATION NUMBER: 60/089948 APPLICATION NUMBER: 60/089952 APPLICATION NUMBER: 60/090349 APPLICATION NUMBER: 60/090431 APPLICATION NUMBER: 60/090444 LICATION NUMBER: 60/090535 JCATION NUMBER: 60/090540 LICATION NUMBER: 60/090542 LICATION NUMBER: 60/090557 LICATION NUMBER: 60/090676 APPLICATION NUMBER: 60/090678 APPLICATION NUMBER: 60/090690 APPLICATION NUMBER: 60/090694 APPLICATION NUMBER: 60/090695 APPLICATION NUMBER: 60/090696 60/091460 60/091478 LICATION NUMBER: 60/091544 1998-06-18 1998-06-18 1998-06 19 1998-06-19 1998-06-19 1998-06 17 1998 06 18 1998-06 23 1998 06 24 1998 06-24 1998 - 06 - 24 1998-06-24 1998-06-25 1998-06-25 1998 06-25 1998 - 06 - 25 1998-06 26 1998 06 17 7[-90-866] 1998 - 06 - 22 1998-06-24 1998-06-24 1998-06-24 1998 06 24 1998 06-25 1998:06.26 10 70 8881 1998 07 01 1998 06:25 APPLICATION NUMBER: FILING DATE: 1998-00 JO'ALLON NUMBER: FILLING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DATE: FILLING DATE: FILING DATE: FILING DATE: FILLING DATE: FILLING DAFE: FILING DATE: FILLING DATE: FILING DATE: FILING DATE: APPI APP APP APP Υĥ Ž 7.KTO.R 7.KTO.R PRIOR PRIOR 가는 HE LER

Ξ. THILE OF INVENTION: Secreted and Transmembrane Polypoptides and Nucleier THILE OF INVENTION: Acids Encoding the Same FILE REFERENCE: P27 OPICS Salte .. © Light 413 Indels Score 14.4; bB 10; Pred, No. 2.4e+04; 0; Mismatches 1; CURRENT APPLICATION NUMBER: US/09/989,727 Sequence 428, Application US/09989727 Patent No. US20020072497Al GENERAL INFORMATION: PRIOR APPLICATION NUMBER: 60/066770 PRIOR FILING DATE: 1997-11-24 PRIOR APPLICATION NUMBER: 60/091626 PRIOR APPLICATION NUMBER: 60/049787 PRIOR APPLICATION NUMBER: 60/2065186 PRIOR FILLING DATE: 1997-11-12 PRIOR APPLICATION NUMBER: 60/2065411 PRIOR FEEING DATE: 1997-11-13 PRIOR APPLICATION NUMBER: 60/07/945 60/078910 PRIOR FILING DATE: 1998-03-20 PRIOR APPLICATION NUMBER: 60/08352 PRIOR APPLICATION NUMBER: 60/084600 PRIOR APPLICATION NUMBER: 60/062250 PRIOR FILING DATE: 1998-05-07 PRIOR APPLICATION NUMBER: 60/08/105 Grimaldi, J. Christopher CURRENT FILING DATE: Z001-11-19 Watanabe, Colin K. Williams, P. Mickey Stewart, Timothy A. 1.88.7 1887.84 PRIOR FILLING DATE: 1998-04-28 Roy, Margaret Ann PRIOR FILLING DATE: 1997 Of 16 PRIOR FILING DATE: 1997 to 17 Pertara, Napoleone 13.48 0.2 25 Pah, James Paoni, Nicholas F. Gerritsen, Mary E. Wood, William I. Gerber, Banspeter Godowski, Paul J. Gurney, Aust in L. 14) Conservative APPLICANT: Ashkenazi, Avi J. Kljavin, Ivar J. Botstein, bayid Goddard, Audrey Baker, Kevin P. Napier, Mary A. 2 ACCCATGGCAGCCC 16 A ACCAARGOAGOO 17 Destroyers, lar-Tumas, baniel PRIOR FILLING DATE: 1998 O. PRIOR APPLICATION NUMBER: Fond, Sheaman Semilia Semilia Eaten, ban 1.. Best Local Similarity Zhattet, US-09 989 727 428 APPLICANT: Query Match APPLICYANT: APPLICANT: AFFLE TANE: APPLICANT: APPLICANT: AFPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLIANT: APPLICANT: APPLICANT APPLICANT AFFILE ANT Matches Ξ ò

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Omery Match 64.8%; Score 18.4; DB 10; Length 21; Best Local Similarity 93.3%; Pred. No. 2.4e+03; Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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March 18, 2003, 11:26:36 ; Search time 43.1148 Seconds (without alignments) 421.899 Million cell updates/sec Run on:

IIS-09-900-115-1 20 I qaxqqcqqcatxqqqqqqqc 20 Little: Perfect score:

Sequences

IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

187787 Total number of hits satisfying chosen parameters:

501302 seqs, 350932545 residnes

Searched:

Minimum DB seq length: 0 Maximum DB seq length: 50

Listing first 1000 summaries Post-processing: Minimum Match 0% Maximum Match 100%

Published_Applications_NA:* Database :

/cgn2_6/prodata/2/pubpna/US07_PUBCOMH.seq:*/ /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*

/ cqn2_0/ptodata/Z/pubpha/I/12_NEW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/13_NEW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/1307_EW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/1307_EW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/1308_EW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/1308_EW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/1308_EW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/1308_EW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/130_NEW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/130_NEW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/130_NEW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/130_NEW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/130_NEW_FUB.seq;; / cqn2_6/ptodata/Z/pubpha/I/1360_PUBCOMB.seq;;

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Result No.	Score	Onery Match	Onery Match Length DB	<u> </u>	110	Description
c 1	15.2	76.0	45	10	US-09-867 274-19	Sequence 19, Appl
7 .	14.8	74.0	26	5	115-10-010-717-4	Sequence 4, Appli
٠ د	14.8	74.0	26	5	US-10-010-717-5	Sequence 5, Appli
ر 4	. 4 .	74.0	26	10	US-09-799-160-20	Sequence 20, App
c.	14.4	72.0	21	Ť	US-09-835-471-52	Sequence 52, Appl
ç	14.4	72.0	2.1	Ť	US-08-835-470-52	Sequence 52, Appl
2	14.2	71.0	20	5	US-09-944-148B-4	Sequence 4, Appli
æ	14.2	71.0	40	37	US-09-874-503-37	Sequence 47, Appl
5	14.2	71.0	4 ()	σ	US-10-000-157-37	Sequence 37, Appl
10	14.2	71.0	4.0	5	US-09-747-259-37	Sequence 37, Appl
	1.4	70.07	2.1	10	US-09-765-081-279	Sequence 279, App
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		63.0	20	5	US-09-346-564-50	Sequence 20, Appl
د 14		64.0	20	7	US-09-824-422B-141	Sequence 141, App
. 15	_	6.4.0	20	5	US-09-888-326-779	Sequence 779, App
c 15		6.3.0	7.0	ŕ	US-09-934-1388-4	Sequence 4, Appli
17	12.6	63.0	æ.	0.1	US-09-854-688-11	Sequence 11, Appl
د ۔	12.6	63.0	50	=	US-09-920-300A-1257	Sequence 1257, Ap
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9 US-09-778-820A-4 Sequence 19 US-09-978-697-471 Sequence 19 US-09-978-192A-471 Sequence 19 US-09-978-184-471 Sequence 19 US-09-978-184-471 Sequence 19 US-09-978-184-471 Sequence 10 US-09-978-184-471 Sequence 110 US-09-164-184-508-4 Sequence 110 US-09-164-184-594 Sequence 110 US-09-164-184-594 Sequence 110 US-09-165-152 Sequence 19 US-09-165-152 Sequence 19 US-09-165-152 Sequence 19 US-09-165-152 Sequence 17 US-09-164-144 Sequence	9 105 10 - 0.05 - 0.05 10 10 10 10 10 10 10 10 10 10 10 10 10	US-10-060-756A-2493 US-10-060-756A-2494 US-10-060-756A-2494 US-10-060-756A-2496 US-10-060-756A-2496 US-10-060-756A-2496 US-10-060-756A-2496 US-09-866-108-1-14856 US-09-866-108-1-14856 US-09-895-040A-145 US-09-895-040A-145 US-09-895-040A-149 US-09-895-040A-149 US-09-895-040A-149 US-09-895-040A-150 US-09-895-040A-151 US-09-895-040A-151 US-09-895-040A-151 US-09-895-040A-152 US-09-895-040A-152 US-09-895-040A-152 US-09-895-040A-153 US-09-895-040A-153 US-09-895-040A-154 US-09-995-97-97-97-97-97-97-97-97-97-97-97-97-97-
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APPLICANT: Mullah, Khairuzzaman B. APPLICANT: Rosenblum, Barnett B. TITLE OF INVENTION: Methods and Compositions for Synthesis of Labelled TITLE OF INVENTION: Oliquorucleotides and Analogs on Solid Supports FILE REFERENCE: 4407
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CHRRENT AFFLICATION NUMBER: US/10/010,717
CHRENT FILING DATE: 2001-11-07
PRIOR AFFLICATION NUMBER: 09/256,440
PRIOR FILING DATE: 1999-02-22
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PRIOR FILMS DATE: 1099-02-22
NUMBER OF SEQ ID NOS: H
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SOFTWARE: FastSECTOL Windows Version 4.0
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; Patest No, US20020058258Al
; GENERAL INFOPMALION:
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          Sequence 4, Application 08/10010717
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APPLICANT: Vinayak, Favi S.
APPLICANT: Locy, Linda G.
                                                                                  APPLICANT: Vinayak, Kavi S.
APPLICANT: Loe, Linda G.
                                   Fatent No. US20020165 89A1
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APPLICANT: Gao, Yonqming
TITLE OF INVENTION: Cysteine Knot Polypeptides: Cloaked-2 Molecules and Uses Thereof
FILE REFERENCE: 0.017/37428
CURRENT APPLICATION NUMBER: US/09/867,224
                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 27, Appl Sequence 27, Appl Sequence 60, Appl Sequence 50, Appl Sequence 43, Appl Sequence 44, Appl Sequence 44, Appl
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Sequence 349,
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Sequence 349,
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); Mismatches 3;
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US 10-211-069-50

US -09-99/5-579-44

US -08-905-29/A-349

US -08-907-84

US -09-907-84

US -
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US-09-823-829-29
US-09-909-0888-26
US-09-756-186-13
US-09-918-889-27
DS 09 904 820 26
DS 09 904 859 26
DS 09 909 204 26
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PRIOR APPLICATION NUMBER: US 60/208,550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR FILLING DATE: 2000-06-01
REGRAM APPLICATION NUMBER: US 60/223,542
PRIOR FILLING DATE: 2000-08-04
NUMBER OF SEQ ID NOS: 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 19, Application US/09867274
Patent No. US20020106650A1
GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                         ORGANISM: Artificial Sequence
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Best Local Similarity 85.09
Matches 17: Conservative
                           US 09 867 274 1970
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C 491
C 992
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                            2; Indels
74.0%; Score 14.8; DK 9;
88.9%; Pred. No. 1.2c+0.4;
Fige 0; Mismatches 2;
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APPLIVANT: BREIP-BL, Gorhard
APPLIVANT: BREIP-BL, Gorhard
APPLIVANT: BREIP-BL, Gorhard
TILLE OF INVENTION: POUTABLDE NUCLEIC ACTO DERIVATIVES. AND AGENTS AND
TILLE OF INVENTION: PROCESSES POR PREPARING
FLICE REFERENCE: 0.2481.1743 SEQUENCE LISSING
CUBERNI APPLICATION NUMBER: US/09/845,471
CUBERNI FILING DATE: 2001-04-17
NUMBER OF SEQ. 10 NOS: 53
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                                                                                                                                              ADDRESSEE: Thorpe, No. US20020058258Alth & Western, L.L.P. STREET: 9045 South 700 East, Suite 200
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                                      Kasmussen, Kandy P. FITLE OF INVENTION: Monitoring Hybridization During PCT NUMBER OF SEQUENCES: 27
                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Diskette, 4.5 inch, 1.44 Mb storage COMPUTER: Toshiba F2150CDS OPERATING SYSTEM: Windows 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE/DOCKET NUMBER: 8616.CLP7
TELECOMMUNICATION INFORMATION:
TELEPHONE: (801)566-6633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FILING DATE: <UOKnown>
APPLICATION NUMBER: US U8/818,267
FILING DATE: 17-MAK-97
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/09/799,160
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: 08/869,276
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STRANDEDNESS: single-stranded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Alan J. Howarth
REGISIRATION NUMBER: 36,553
                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Word Perfect 7.0 OURRENT APPLICATION DAFA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 05-Mar-2001
CLASSIFICATION: <0th>Abrown>
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; Publication No. US200201874741
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEFAX: (801)566-0750 INFORMATION FOR SEQ ID NO: 20:
APPLICANT: Wittwer, Carl E.
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                         Kirie, Kirk M.
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                                                                                                                       CORRESPONDENCE ADDRESS:
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SEC (b. No. 52
LENGTH: 21
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                                                                                                                                                                                                                STATE: Utah
COUNTRY: USA
                                                                                                                                                                                              CLIY: Sandy
                                                                                                                                                                                                                                                                     ZIP: 84070
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APPLICANT: Mancharan, Muthiah
1111E OF INVENTION: Carbamate-Derivatized Nucleosides
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                                                    GdbS
                                                                                                                                                                                                                                                                                                                                                                                                           THE OF INVENTION: PARABLE NOTICE AND DERIVATIVES AND ABENIS AND THEE OF INVENTION: PROCESSES FOR PERARING THEM FILE REPERENCE: OFFICE SEQUENCE LISTING CUBERNIC FOR MINIMES. SEQUENCE LISTING CUBERNIC APPLICATION NUMBER 135/04/445, 470 CUBERNIC FILING TATE: 2001-04-17 NUMBER OF SEQUENCES. SEQUENCES: 64 SEGUENCES. SEQUENCES: 64 SEGUENCES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence: nucleotid OTHER INFORMATION: base sequence of PNA derivatives that bind to OTHER INFORMATION: viral and cellular targets
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72.0%; Score 14.4; DB 9; Length 21; 93.8%; Pred. No. 1.70+04; ; ; ; ; ive 0; Mismatches 1; Indels
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Live 0; Mismatches 1; Indels
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OS-09-941 1488-4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              : Sequence 3, Application US/09934138B
; Publication No. US2003(039977A1
: GENERAL INFORMATION:
                                                                                                                                                                                                                                                                ; Sequence 52, Application USZ09835370
; Publication No. USZ0030022172Al
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CORRENT FILLING DATE: 2002-06-25 NUMBER OF SEQ ID NOS: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA OEGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Fatentin version 3.1 SEQ ID NO 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 Additional Addition 20
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Matches 15: Conservative
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Matches 16, Conservative
                         Local Similarity 93.8
nes 15; Conservative
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                                                                                               1 GAGGGGGGGATGGGGG 16
                                                                                                                                            5 GAGGGGGGGATGGGGG 20
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                                                                                                                                                                                                                                                                                                                                            APPLICANT: UBLMANN, EUGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1818-4802
                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
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                                                                                                                                                                                                                                            US 09-845-470-52
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                                               Matches
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TITLE OF INVENTION: 11-17 HOMOLOGOUS POLYPERTIDES AND THERAPEUTIC USES THEREDE
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PRIOR PILING DATE: 2001-02-28
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PRIOR PRINCANTON NUMBER: US 60/253,646

PRIOR AIPLICATION NUMBER: US 60/242,072

PRIOR AIPLICATION NUMBER: US 60/242,847

PRIOR AIPLICATION NUMBER: US 60/242,847

PRIOR PILING DATE: 2000-10-24

PRIOR PILING DATE: 2000-10-24

PRIOR PILING DATE: 2000-01-11

PRIOR PILING DATE: 2000-01-11

PRIOR PILING DATE: 2000-03-21

PRIOR PILING DATE: 2000-03-21

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PRIOR PILING DATE: 1999-12-23

PRIOR PILING DATE: 1999-04-03

PRIOR PILING DATE: 1999-12-23
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CURRENT APPLICATION NUMBER: US/09/874,504
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PRIOR FILING DATE: 2001-05-20
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PRIOR FILING DATE: 1999-05-14
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                                                      Sequence 37, Application 08/09874503
Patent No. 082002017718881
                                                                                                                                                                                                                                                                           Grimaldi,J.Christopher
Gurney,Austin L.
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Vandlen, Richard
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                                                                                                                                                                  Filzarott.Ellen
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                                                                                                            GENERAL INFORMATION:
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TITLE OF INVENTION: 11, 17 HOMOLOGOUS FOLYPEPTIDES AND THERAPEUTIC USES THEREOF
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Fred. No. 2c+04;
0; Mismarches 4; Itadels
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18-09-874-504-7
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PRIOR APPLICATION NUMBER: 03 PCJ/0300/05641

PRIOR APPLICATION NUMBER: 03 PCJ/0300/05601

PRIOR PILING DATE: 2000 04 03

PRIOR PILING DATE: 2000 04 03

PRIOR PILING DATE: 2000 02-18

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PRIOR PILING DATE: 1000 02-18

PRIOR APPLICATION NUMBER: 03 PCJ/0309/41274

PRIOR APPLICATION NUMBER: 03 PCJ/0309/10744

PRIOR APPLICATION NUMBER: 03 PCJ/0309/10744

PRIOR APPLICATION NUMBER: 03 PCJ/0309/10744

PRIOR APPLICATION NUMBER: 03 PCJ/0309/05028

PRIOR PILING DATE: 1009 12 NO NUMBER: 03 PCJ/0309/05028

PRIOR PILING DATE: 1009 05-14

PRIOR PILING DATE: 1009 05-14
PRIOR APPLIPATION NUMBER: US PCT/USON/ 4956
                                          APPLICATION NUMBER: US POT/USOU/ (2678)
                                                                                                                                  APPLICATION NUMBER: US PCT/DSOU/2332B
FILING DATE: 2000 08-24
                                                                                                                                                                                                 FILING DATE: 2000-06-02
APPLICATION NUMBER: US-PCI/US00/07532
                                                                                      APPLICATION NUMBER: US PCT/USOO/30873
                                                                                                                                                                               APPLICATION NUMBER: IIS PCT/USOU/15264
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No. USzouzulkz674Al
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PRIOR FILLING DATE: 1998-05-15
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Grimaldi, J.Christopher
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ORGANISM: Artificial Sequence
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Word, William
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Publication No. USCOC
GENERAL INFORMATION:
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FILING DATE: 2000-03-02
APPLICATION NUMBER: PCT/US00/07542
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APPLICATION NUMBER: PCT/US00/24428
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PRIOR FILING DATE: 2000-12-20
PRIOR APPLICATION NUMBER: PUT/USO1/06520
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APPLICATION NUMBER: PCT/US99/41274
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APPLICATION NUMBER: PCT/USCO/05601
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PRIOR APPLICATION NUMBER: PCT/US00/05841
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APPLICATION NUMBER: PCT/USO0/30874
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FILING DATE: 2001-08-13
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APPLICATION NUMBER: 09/380138
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APPLICATION NUMBER: 09/747259
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FILING DATE: 2001-05-10
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FILING DATE: 2001-05-10
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APPLICATION NUMBER: 09/908827
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APPLICATION NUMBER: 60/140232
                FILLING DATE: 1999-04-21
APPLICATION NUMBER: 60/131022
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FILING DATE: 1999-06-09
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FILING DATE: 2000-11-28
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APPLICANT: Yansata, Daniel
11TLE OF INVENTION: 11-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF
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                                                              PRIOR AIPLICATION NUMBER: PCT/USO1/19692 PRIOR FILING DATE: 201 -06-20 FRICK APPLICATION NUMBER: PCT/USO1/21066 FRICK FILING DATE: 201 -06-29 PRIOR FILING DATE: 201 -06-29 PRIOR FILING DATE: 201 -06-29 PRIOR FILING DATE: 201 -07-69 NUMBER OF SEC. 10 NOS: 39
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PRIOR FILIN: DATE: 1999-05-14
PRIOR PELIN: DATE: 1999-12-33
PRIOR PELIN: DATE: 1999-12-23
PRIOR PELIN: DATE: 1999-12-33
PRIOR PELINS DATE: 1999-12-30
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PRIOR APPLICATION NUMBER: PCT/US00/07542
PRIOR FILLING DATE: 200.1-02-28 PRIOR APPLICATION NUMBER: PCT/US01/17800
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PRIOR APPLICATION NUMBER: US 60/213,087
PRIOR FILING DATE: 2000-06-22
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PRIOR FILLING DATE: 2000-01-11
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Publication No. US/0030008815A1
GENERAL INFORMATION:
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Grimaldi, Christopher
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Best Local Similarity 84.2%;
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Tumas, Daniel
Vanlookeren, Menno
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Williams,P.Mickey
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APPLICANT: Fond, Sherman
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US-09-747-259-37
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LENGIH: 40
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APPLICANT: Lander, Eric S.
TITLE OF INVENTION: HUMAN SINGLE NUCLEOTIDE FOLYMORPHISMS FILE REFERENCE: 28.25, 2008-001
CURRENT APPLICATION NUMBER: US/09/765,081
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08 09 747-259 37
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1; Mismatches 1
NUMBER OF SEQ ID NOS: 461
SOFTWARE: FastSEQ for Windows Version 4.0
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PRIOR APPLICATION NUMBER: US 60/176,861
PRIOR FILLING DATE: 2000-01-19
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Patent No. US20020037508A1
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Patent No. US20020164820A1
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NUMBER OF SEQ 1D NOS: 39
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Best Local Similarity 87.5
Matches 14: Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rest Local Similarity
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LENGTH: 21
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LOCATION: (7) \dots (7) of HER INFORMATION: N here denotes a chambeofide that is labeled with 6 carboxyte OTHER INFORMATION: methylihodamine.
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OTHER INFORMATION: reseein.
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Pred, No. 5, 20003;
0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: BSZ09Z996, 263
FILING DATE: 28 No. BSZ0030004325A1 2001
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CTIY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4.5 inch disk, 720 Kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REPERENCE/DOCKET NOMBER: 1STS 2005
                                                                                                                                                                                                                                                  OTHER INFORMATION: Dual Fluor Labeled Probe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC COMPATIBLE OPERALING SYSTEM: PC DOS/MS DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: 08/471,973
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                          UM/H 4H, 26.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 20, Application US/09996263
Publication No. US20300004425A1
GENERAL INFORMATION:
APPLICANT: PHILLIP DAN CAGE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Andrew Kawasaki
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SEQUENCE CHAPACTERISTICS:
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SIRANDEDNESS: single
                                                                                                                                                                                              ORGANISM: Artificial Sequence
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78.9%;
                                                                                                   SOFTWARE: Patentin version 4.1
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                       PRIOR APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                         NAME/KEY: misc teature
                                                                      NUMBER OF SECTIONOS: 4
                                                                                                                                                                                                                                                                                                 NAMEZKEY: misc feature
Location: (1)..(1)
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Best Local Similarity
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PRICK FILLING DATE:
                                                 PRIOR FILING DATE:
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us-09-900-115-1.max.rnpb

Gaps

Length 20; Indels

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64.0%; Score 12.6; DB 9;
78.9%; Pred. No. 9.1e+03;
iive 0; Mismatches 4;
; Location: (0) ...(0) ...(0) : other inFoRMATion: phosphorothioate backbone
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Matches 15; Conservative
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                                                                                                                                                                                                                                                                                                RESULT 16
US-09-934-138B-4/c
                                            US-09-888-326-779
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                                                                                       Query Match
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TITLE OF INVENTION: ALPHA) EXPRESSION
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                                                                                                            63.0%; Score 12.6; DB 9; Length 20; 78.9%; Pred. No. 9.1e+03; tive 0; Mismatches 4; Indels
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Live 0; Mismatches 4; Indels
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APPLICANT: Hartmann, Gunther
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Autibedy-Induced
TITLE OF INVENTION: Cell Lysis and Treating Cancer
FILE REPERENCE: Closy/705. (AWS)
CURRENT PAPPLICATION NUMBER: US/99/888, 426
CURRENT FILING DATE: 2001-06-22
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         AMALL-SENSE: YES
SEQUENCE DESCRIPTION: SEQ 10 NO: 20:
US-09-996-263-20
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CURRENT APPLICATION NUMBER: US/09/824,322B
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PRIOR FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 779
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT FILLING DATE: 2001-04-02
PRICK APPLICATION NUMBER: US 09/313,932
PRICK FILING DATE: 1999-05-18
PRICK PPLICATION NUMBER: US 09/166,186
PRICK FILING DATE: 1998-10-05
NUMBER OF SEQ ID NOS: 503
SEQ ID NO 141
                                                                                                                                                                                                                                                                                                                                      US-09-824-82B-141/c
Sequence 141, Application US/09824322B
; Publication No. US20030022848A1
; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Baker, Brenda
APPLICANT: Bennett, C. Frank
APPLICANT: Butler, Madeline M.
APPLICANT: Shanahan, William R.
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Best Local Similarity 78.99
Matches 15, Conservative
                                                                                                          Query Match
Best Local Similarity 78,99
Matches 15; Conservative
ToPoLoGY: linear
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APPLICANT: GREGORY, JOHN
APPLICANT: MILAR, DAVID S.
TITLE OF INVENTION: METHOD FOR DETECTING GROWTH HORMONE VARIATIONS IN
TITLE OF INVENTION: HOMANS, THE VARIATIONS AND THEIR USES;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           63.0%; Score 12.6; DB 9; Length 20;
78.9%; Pred. No. 9.1e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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US-09-934-138B-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. 9.1e+U3;
0; Mismatches 4;
                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/934,138B CURRENT FILING DATE: 2002-06-25 NUMBER OF SEQ ID NOS: 8 SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION NUMBER: US/09/853,688
: Sequence 4, Application US/09934138B
: Publication No. US20030039977AI
: GENEKAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; Sequence 11, Application US/09853688
; Patent No. US20020081605A1
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NUMBER OF SEC ID NOS: 66
                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Artificial Sequence
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Best Local Similarity 78.99
Matches 15; Conservative
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SEQ ID NO 11
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TIFIE OF INVENTION: METHORS AND COMPOSITIONS FOR DIAGNOSTIAD AND TREATING NEUROPSYCHIALILE OF INVENTION: DISORDERS SUCH AS SCHIZOPHRENIA
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                                                                                                                                            APPLICANT: Xu, JIAnqchun
APPLICANT: Secrist, Beather
TITLE OF INVENTION: ComPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: COMPOSITIONS OF COLON CANCER
FILE REFERENCE: 210121.547
CURRENT APPLICATION UNMERS: US/09/920, 400A
NUMBER OF SEU ID NOS: 1789
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CURRENT FILLIN: DATE: 2001-12-26
NUMBER OF SEQ 1D NOS: 1896
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US-05-920-400A 1257/c
Sequence 1257, Application US/09920300A
Fatent No. USZ0020135728A1
GENERAL INFORMATION:
APPLICANT: King, Gordon E.
APPLICANT: Meaghet, Madeleine Joy
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Fatent No. 08/20020131971A1
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APPLICANT: Barrington-Martin, Kory
APPLICANT: Parker, Alexander
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APPLICANT: Meacher, Madeleine Joy
APPLICANT: Xu, Jiangehun
APPLICANT: Secrist, Heather
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Publication No. US20030027154A1
GENERAL INFORMATION;
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08 09 920 300A 1257
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TITLE OF INVENTION: A METHOD FOR THE DETECTION OF AN ANALYTE BY MEANS OF A TITLE OF INVENTION: NOTLEIT ACTO REPORTER
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FORCH No. US/D9/P9/903A
GENERAL INFORMATION
APPLICANT: Lin, Xin i
APPLICANT: Lin, Xin i
APPLICANT: Lin, Xin i
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B2.4%; Pred. No. 1, 80:04;
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82.4%; Pred. No. 1.4e+04;
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                                                          CURRENT APPLICATION NUMBER: US/09/945,464
CURRENT FILING GATE: 001-08-24
PRIOR APPLICATION NUMBER: US-09/757,400
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PRIOR FILLING DATE: 2000-06-13
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: Patent No. US/2002/0985A1
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APPLICANT: HENDRICKSON, EDWIN R.
APPLICANT: MICHAEL, PERRY P.
FILE REPERBNOE: 4422/14/02 UST
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NUMBER OF SEQ ID NOS: 90
SOFTWARE: Patentin version 4:0
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US-09-935-464-8
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NUMBER OF SEQ ID NOS: 13
SOFTWARE: MICLOSOIT OFFICE 97
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APPLITANT: Lin, Xinli
APPLITANT: Lin, Xinli
APPLITANT: Koelsch, Gerald
TITLE OF INVENTION: Catalytically Active Recombinant Memapsin and Methods
TITLE OF INVENTION: Of Use Thereof
FILE REFERENCE: OMEF 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Saps
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US 09 795-904A-11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 12.2; DR 9; Longth 28;
Prod. No. 1.30-04;
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PRIOR PLING DATE: 1999-11-30
PRIOR APPLICATION NUMBER: 60/177,836
PRIOR APPLICATION NUMBER: 60/178,848
PRIOR APPLICATION NUMBER: 60/178,368
PRIOR APPLICATION NUMBER: 60/210,292
PRIOR APPLICATION NUMBER: 60/210,292
PRIOR FILING DATE: 2000-06-08
NUMBER: 60/210,292
SUPERMARE: PATENTION NUMBER: 61/210
SUPERMARE: PATENTI
PRIOR APPLICATION NUMBER: 09/604,608
PRIOR FILING INAIE: 2000-05-27
PPIOR APPLICATION NUMBER: 60/164,050
PRIOR FILING INAIE: 1959-11-30
PRIOR APPLICATION NUMBER: 60/177,865
PRIOR FILING AACE: 2000-01-25
PRIOR FILING DAIE: 2000-01-27
PRIOR FILING DAIE: 2000-01-27
PRIOR FILING DAIE: 2000-01-27
PRIOR FILING DAIE: 2000-06-08
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PATENTIN NUMBER: 60/210,292
NUMBER OF SEQ ID NOS: 31
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: Patent No. US20020164760A1
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Matches 14; Conservative
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Best focal Similarity 82.49
Matches 14: Conservative
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BS:09:73#-264-10/c
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Sequence 10, Application US/09796264
Patent No. Vs.0020049.004Al
GENERAL THEORATION
APPLICANT: Lin. Xin.ii
APPLICANT: No. Xin.ii
APPLICANT: Combinant Memapsin and Methods
ITTLE OF INVENTION: Cot.alytically Active Recombinant Memapsin and Methods
CURRENT APPLICATION NOTHER: US/09/796,264
CURRENT FILING DATE: 2001-02-28
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APPLICANT: Line, Jordan J.N.
APPLICANT: Line, Xinli
APPLICANT: Line, Xinli
APPLICANT: Line, Xinli
APPLICANT: Line, Seriald
TITLE OF INVENTION: Catalytically Active Recombinant Memapsin and Methods
TITLE OF INVENTION: of Use Thereof
FILE REFERENCE: OMRE 179
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US-09-796-264-11
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US-09-796-264-10
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                                                                                                                                                                                                                                                                                                                                          PRICE APPLICATION NOMBER: 09/504, 608
PRICE FILIN: DATE: 2000-06-27
PRICE APPLICATION NUMBER: 60/168,050
PRICE PILIN: DATE: 2000-01-25
PRICE APPLICATION NUMBER: 60/177,846
PRICE PILIN: DATE: 2000-01-25
PRICE APPLICATION NUMBER: 60/178,468
PRICE FILIN: DATE: 2000-01-27
PRICE FILIN: DATE: 2000-01-27
PRICE FILIN: DATE: 2000-06-08
NUMBER OF SEQ 11-NOS: 41
SOFTWARE: PATENTIAN NUMBER: 60/210,292
PRICE FILIN: DATE: 2000-06-08
NUMBER OF SEQ 11-NOS: 41
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PRIOR FILING DATE: 2000-06-27
PRIOR APPLICATION NUMBER: 60/168,060
PRIOR APPLICATION NUMBER: 60/177,836
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PRIOR APPLIATIN MINNER: 60/210,292
PRIOR FILMS TALE: ZUGO-06 08
MINNER OF SEC 1D NOS: 41
SOFTWAKE: PATCALL VO. 2.1
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PRIOR APPLICATION NUMBER: 60/178,368
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Patent No. US200204493 Al
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US-09-796-264-11
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Oberg Match
Rest Local Similarity 82.4%; Pred. No. 1.3co.04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps

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400.132 Million cell updates/sec
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Database :	EST:* 1. em_estba:* 2. em_estbum:* 4. em_estfur:* 5. em_estpl:* 7. em_estpl:* 7. em_estpl:* 8. em_estpl:*	
	9: qb_est1:* 10: qb_est2:* 11: qb_htc:* 12: qb_est4:* 13: qb_est4:* 14: qb_est5:* 15: em_est1:* 16: em_est1:*	
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Prod. No. is the number of results predicted by chance to have a scare greater than or equal to the scare of the result being printed, and is derived by analysis of the total score distribution.

			Description		B1561395 603255161	AI098967 ub999004.r	A1423979 tf36h03.x	A1089757 ga22e03.x	H84462 yv85c09,r1	AA878818 o183d05.s
SUMMARIES			Ê		41 13 R1561395	AI098967	A1423979	A1089757	H84362	AA878818
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Gaisel, S., Knedda, T., Larry, M., Lar, M., Marrith, J., Marris, M.,
Schellenberg, K., Strofon, W., Tan, F., Underwood, K., Moore, R.,
Heristier, K., Wylie, T., Lennon, G., Soares, W., Wilsen, K., and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Manmalia; Eutheria; Rodentia; Sciuroquathi; Muridae; Murinae; Mus. 1-({\rm bases}\ 1\ {\rm to}\ 4\beta)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tor full length clones and constructed using the Cap trapper method (Caroine). In preparation). Library constructed by M. Brownstein (NIMH/NHGR), National Distinctes of Health), Note; this is a NIH Med Library."
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chone distribution; McC chone distribution information can be found through the L.M.A.G.E. Consortium/LLM. at: http://image.llm.gov
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Plate: LLAMINITYSE row.i column: 15
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Washal HMMI Monse ESI Project
Washinaton University School of Medicined
4444 Forest Park Parkway, Nox B501, St. Louis, Me 65108
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Pred. No. 8.7e+04;
0; Mismatches 1; Indels 0.
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Zdb xrot "taxon 9606"
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Zelone Iib "NHH MGC 97"
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Eax: 414-286-1810
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Query Match.
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Wha Sequencind by: Mashindron University Genome Sequencing Center-
Clone distribution: NCI COAP clone distribution information can be
tound through the L.M.A.G.E. Consortium/LLNL at:
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                                                                                                                             /note="ordan: mammary gland; Vector: pI7I3D-Pac (Pharmacia ) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; lst strand cDNA was primed with a Not I - oliqo(dI)
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A14.5603.x1 NCL_CGAD_Hrn23 Homo sapiens chwa clone IMAGE.2098325 3'
similar to SW.SP49.HUMAN O15427 SPLICESOME ASSOCIATED PROFEIN 49
;contains element MER22 repetitive element ; mRNA sequence.
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   National Cancer Institute / National Institute of Naurological Disorders and Stroke, Brain Tumor Genome Anatomy Project (CGAP/HTGAP), Tumor Gene Index Inpublished (1998) (1998) Confact: Robert Stransberg, Ph.D. Email: cqapbs-r*mail.nih.gov
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Pred. No. 8.6e+04;
0; Mismatches 1; Indels
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/db_xref-"taxon:9606"
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High quality sequence stop: 1.
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Best Local Similarity 93.89
Matches 15, Conservative
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adaptors (Pharmacia), digested with Not I and cloud into
the Not I and Eco RI sites of the modified pT773 vector.
Library is normalized, and was constructed by Bento
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Similar to SW.PRPH_HUMAN P02814 PROLINE-RICH PEPTIDE P-6. ; contains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
                   adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified p1713 vector.
Library is normalized, and was constructed by Bento
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Notivinis-coap http://www.ncbi.nlm.nih.dov/ncicgap.
Notivinis-coap http://www.ncbi.nlm.nih.dov/ncicgap.
Notivinis-coap http://www.ncbi.nlm.nih.dov/ncicgap.
Disorders and Stroke, Brain Tumor Genome Anatomy Project
(CGAP/HGAP), Tumor Gene Index
Dispublished (1998)
Contact: Robert Strausberg, Ph.D.
Enail: cqapbs-ramail.nih.gov
                                                                                                                                                                                                                                                                    Gaps
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Ronaldo, Ph.D.
37); double-stranded cDNA was ligated to Eco RI
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                                                                                                                                                                                                             69.0%; Score 13.8; DB 9; Length 43; 88.2%; Pred. No. 1.4e+05;
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Alogyk?
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/tissue_type "qlioblastoma (pooled)"
/lab_bost-"DH108"
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High quality sequence stop: 1.
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68.0%; Score 14.6; DB 9; Length 40;

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Might quality sequence start:
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TGFTAPCAAFFTBAAGGGGAGCGGCAGFFHHTTHTHTH C],
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Rikkin,L., Rohlling,T., Soares,M., Tan,F., Trevaskis,E., Waterston
,R., Williamson,A., Wohldmann,P. and Wilson,R.
The Washu-Merck EST Project
Unpublished (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      double-stranded cDNA was size selected, ligated to Eco RI adapters (Phatmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pT7T3 vector.
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Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Hoiman
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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This clone is available toyally free through LLNL; confact the TMAGE volsortium (into-fimage, llnl, acv) for forther information.
Trace considered overall poor quality.
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                                                                                                                                                                                                yv85c09.rl soares melanocyte 2NbHM Home sapiens cDMA clone
IMAGE:249520-5' similar to qb:L06505-608 RIBOSOMAL PROTEIN LLZ
(HUMAN);, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (Pharmacia). Library constructed by Bento Soares and
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93.3%; Pred. No. 2e+05;
Live 0; Mismatches 1; Indels 0
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/lab_host "DH10B (ampicillin resistant)"
                       4; Indels
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    80.0%; Pred. No. 1.7e(05)
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/db_xret "GDB:1867226"
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/elone="IMAGE:249520"
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                                                            L dAdddeddetATddeddAdde 20
                                                                                    /sex "Male"
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H84362.1 G1:1063033
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                       16; Conservative
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EST 29 SEP 2000
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Site 2: Not1; Cloned unidirectionally, Primer: oliqo dL.
Average insert size 0.8 Kb."
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Enkaryola; Metazoa; Chordata; Cianiala; Vertebrata; Enteleostomi;
Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                   Homo sapiens
Enkaryota, Metazoa, Chordata, Craniata, Vertebrata, Enteleostomi,
AARZHREER EST 25 MAP 19 OLEGOST EST 25 MAP 19 OLEGOSTS NOT COUR GOSTS SINCTONIA COURSE INVITED A GOST A STREET TO TEQUIDA QUIDA EXTENSINE, INDNA SEQUENCE.
                                                                                                                                                                                                                                                                                                     [ (bases 1 to 31)
NPT CDAP bitp://www.ncbi.nlm.nih.qov/ncicqap.
National Cancer Institute, Cancer Genome Anatomy Project (CDAP).
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Clone distribution: MCV clone distribution information can be
tound through the L.M.A.G.E. Consortium/LLM. at: image. Hullery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                colo81959El NIH MGC 9 Homo sapiens cONA clone IMAGE: 6952119 57,
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National institutes of Health. Mammalian Gene Collection (MGC)
Unpublished (1999)
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                                                                                                                                                                                                                                                                               Mammalia; Butheria; Primates; Catarrhini; Hominidae; Home.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CONA Library Preparation: Line Homa/Pubin Laboratory
CONA Library Arrayed by: The L.M.A.G.E. Consortium (HINL)
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Pred. No. 2.40+05;
0; Mismatches 3; Indels
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High quality sequence stop: 1.
Location/Qualifiers
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//ob-host "pH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            unknown library type
Trace considered overall poor quality
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Plate: LLCM831 row: e column: 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /ordanism "Homo sapiens"
/db xref "taxom;9606"
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                                                                                                                                                                                                                                                                                                                                                                                             Tumor dene Index
Unpublished (1997)
Contact: Robert Stransberg, Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             42 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zelone "IMAGE: 1436937"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: eqapbs remail.nih.gov
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                                                                                                                    AAR78811 01:2987783
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Laboratory Mouse DNA Resource

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308, Hiomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
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                                                                                                                                                                                                                                                                            //issuc_type="adenocarcinoma cell line"

//issuc_type="adenocarcinoma cell line"

//lab host="bHIOB (phage resistant)"

//lab host="bHIOB" (phage resistant)"

//lab host line Ecoki/Xhol sites using the following 5'

//lab host line GGCGGGGGG (). Sites selected >500bp for average

//lab host size 1.8kb. Library constructed by Ling Hong in

the laboratory of Gerald M. Rubin (University of

//lab host line for the following ship in the laboratory of Gerald M. Rubin (Iniversity of

//lab host line for the following ship in the laboratory of Gerald M. Rubin (Iniversity of

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AZ802167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mammalia; Eutheria; Rodentia; Sciuroquathi; Muridae; Mus.
1 (bases 1 to 20)
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Slam, H., Löngacher, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly
IM., Kose, M., Rose, R., Stokes, R., Fingey, A., von Niederhausern, A.
and Wright, D., Weiss, K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Verfebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /lab_host."E. Coli strain XLlu-Gold, Il-resistant, P-"
/note "Vector: PWD42nv; Puritied genomic DNA from M.
musculus C578L/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       sdep to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            66.0%; Score 13.2; DB 12; Length 42; 83.3%; Pred. No. 2.40+05;
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Plate: 0061 row: A column: 07
Seq primer: CGTGTAAAACGACGGCAMIT
Class: plusmid ends
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0; Mismatches
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                                                                                                                    /ordanism "Homo sapiens"
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/db_xref "taxon:10090"
/clone-"UUGC2M0061A07"
                                                                                                                                                                                                  /clone="IMAGE:3952119"
/clone_lib="NIH_MGC_9"
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High quality sequence stop: 42.
                                                                                                                                                           /db_xref-"taxon:9606"
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                                      Location/Qualitiers
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Contact: Robert B. Weiss
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Fax: 801 585 7177
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KEYWORDS
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                                      FEATURES
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10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (gil472114) that of pMD4F129072.1), a copy-number
inducible derivative of plasmid RL. The vector was ligated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      University of Utah Genome Center
University of Utah
Rm. 408, Biomedical Polymers Research Bidg., 20-8, 2030 E., SD., Ul
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.00% inch oritice at constant velocity. The sheared DNA was blunt end-repaired with 14 DNA polymerase and 14
                                                                                                                                                                                                                                                                                                                                                      purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GSS 04 Octl - 2000
                                                                                                                   polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                       chemically-competent E. coli XL10 Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AZ445567 1 GSS 04 001-209
IMOZ75017R Mouse 10kb plasmid UUGCIM library Mus musculus qenomic

    (bases 1 to 27)
    Dunn, D., Aoyadi, A., Barber, M., Beacorn, L., Duval, B., Hamil, C., Islam, H., Londerce, S., Mahmoud, M., Meenen, E., Pedersen, L., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.

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Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae: Mus
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/note "Vector: PWD42nv; Purified economic DNA from M.
musculus C5781/64 (male) was obtained from the Jucksen
                                                                                                                                                                                                                                                                                                                              with adaptors complementary to the insert adaptors and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     64.0%; Score 12.8; DB 17; Length 20; 87.5%; Pred. No. 3.3e+05; ive 0; Mismatches 2; Indels
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Seq Primer: CACACACACACACACACACC
Class: plasmid ends
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/db_xref "taxon:10090"
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Contact: Robert B. Weiss
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Laboratory Mouse DNA Resource

Laberatory Mouse DNA Resource

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                                                                                                                                                                          10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (qi14732114 qb)AF129072.1), a copy-number inducible derivative of plasmid kl. The vector was ligated with adaptors complementary to the insert adaptors and partitled. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into ehemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampleillin resistance."
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.00% inch or if ice at constant velocity. The sheared BNA was blunt end repaired with T4 DNA polymerase and T4
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Mammalia; Eutheria; Rodentia; Scinroquathi; Muridae; Murinae; Mus.
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Nam, H., Londacte, S., Mahmend, M., Meenen, E., Pedersen, L., Reilly
IM., Rose, M., Rose, K., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weiss, R.
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/hote "Vector: EWD42nv; Purified genemic DNA from M.
musculus C5781/6J (male) was obtained from the Jackson
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Contact: Robort B. Weiss
University of Utah Genome Center
University of Utah
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Fax: 801 585 7177
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(http://www.jax.org/resonrees/decuments/duares/). The DNA
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adaptored DNA was purified and size selected for a 9.5 to
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Mammalia; Eutheria; Primates; Catarrhin; Hemornidae; Homo,
1 (bases 1 to 46)
Nel Chaes I trey/www.nebi.nlm.nih.aov/meietap.
Nel Chaes Canegr Institute, Caneer Genome Anatomy Project (CGAP),
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IMAGE:204.655 4* Similar to SW:PRFB_HUMAN_F02B14_PRGINE_RICH
PEPIIDE_F B. ; mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  with adaptors complementary to the insert adaptors and
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Pred, No. 4, 60.05;
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/dev stage "B 9 weeks"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /ordanism "Homo sapiens"
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87,5%;
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A1971899.1 G1:5768725
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Best Local Similarity 78.99
Matches 15; conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: 801 585 5606
Fax: 801 585 7177
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2M0242G20F Mouse 10kb plasmid UUGCZM library Mus musculus genomic
clone UUGCZM0242G20 F, DNA sequence.
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Amphibia, Batrachia, Anura, Mesobatrachia, Pipoidea, Pipidao,
constructed by Bento Soares and M. Fatima Bonaldo. "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sanger Xenopus tropicalis EST project 2001
TROPICALIS_SEQUENCE_ID: L1G2109.plc
Sequencing primer: PIC
This sequence is from a Xenopus Gene Collection (XGC) library constructed by Anon M. Zorn.
Location/Qualifiers
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Sanger Xenopus tropicalis EST project, 2001 (10, 2001)
Unpublished (2001)
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1 (bases 1 to 50)
                                                                                                                    CONSTRUCTION 64.0%;
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electrophoresis. Vector BNA was prepared from a derivative of pWD42 (gil47321141qblAF129072.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adapters complementary to the insert adaptors and purified. The sheared, adaptored mouse bNA was annealed to adaptored vector bNA, and transformed into
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The sheared INA was buint end-repaired with 14 DNA polymerase and 14 polymucleotide kinase. Adaptor oligonucleotides were lighted to the buint ends in high molar excess. The adaptored INA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose well.
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(http://www.jax.org/resources/documents/dnares/). 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/clone_lib "Mouse lokb plasmid UNAC2M library"
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No. 3.90·05;
78.9%; Pred. No. 3.90·05;
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Seq primer: CGITGIAAAACGACGAGI
Class: plasmid ends
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Confart: Kobert B. Weiss
University of Utah Genome Center
University of Utah
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Contact: Robert B. Weiss
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        double-stranded cDNA was ligated to Eco KI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pt714 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Patima Bonaldo. "
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l (bases l to 30)
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Islam,H., Jongarte,S., Mahmond,M., Meeten,E., Pedersen,T., Feilly
.M., Rose,M., Bose,R., Stokes,R., Lingey,A., von Niederhausern,A.
and Wright,D.,Weiss,R.
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IMO 997808R Mouse 10kb plasmid UDG*IM library Mus muserilus genemie
                                                                                                                                                                                                                                      Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: M. Bento Soares, Ph.D. cDNA Library Arrayed by: Christa Prange, The I.M. CONSOITINE DNA Sequencing by: Washington University
                                       Eukaryoja, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia: Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                              National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mouse whole genome scattolding with paired end reads from 10kb
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NCL-CGAP http://www.ncbi.nlm.nih.gov/ncicqap.
                                                                                                                                                                                                                                                                                                                                                                                                 www bio.llnl.qov/bbrp/imaqe/imaqe.html
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/db xrot "taxon:9606"
                                                                                                                                                                                               contact: Robert Stransberg, Ph.D.
Email: cqapbs-r⊄mail.nih.qov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /elone "IMAGE:2530999"
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Contact: Robert B. Weiss
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with adaptors complementary to the insert adaptors and partitiod, the sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically comportent E, coli XLO Gold (Stratagene) cells and selected for ampleillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       of pWD42 (di[47421141qb]AF129072.1), a copy number inducible derivative of plasmid RL. The vector was ligated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (http://www.jax.ora/resonrees/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         electrophoresis. Vector DNA was prepared from a derivative
                                                                           408, Biomedical Polymers Research Ridg., 20-8, 2040 E., SD., UI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ligated to the blunt ends in high modar excess. The adaptored bNA was purified and size selected for a 9.5 to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.005 inch oritice at constant velocity. The sheared DNA was blunt end repaired with 14 DNA polymerase and 14 polymereotide kinase. Adaptor oligomerleotides were
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Eukaryoka: Metazea: Cherdata: Cramiata: Vertebrata; Enteleostomu;
Mammalia: Eutheria: Rodentia: Sciurognathi; Muridae; Murinae: Mus
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Slam, H., Londarer, S., Mahhmand, M., Meeterh, E., Peder Sen, L., Reilly
.M., Rosse, M., Bease, K., Stokes, R., Tinqey, A., Von Niederhausern, A.
and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /lab post "E. Coli strain XLD Gold, il resistant, F " //fote "Vector: Pupplatory Purified genemic DAN from M. museulus CYSIA, Fall (male) was obtained. From the Jackson Laboratory Mouse DNA Resource.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mouse whole geneine scattedding with paired end reads from 1985
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       lu,5 kb range using proparative agarose gel
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                                                                                                                                                                                                                                                                                                                            Seq primer: *AvAcAdaAAACAGCIA1GACCCAass: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism "Mus musculus"
University of Utah Cenome Center
University of Utah
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Zelone "GUGCIM0497H08"
                                                                                                                                                                                                                                                                                                 Plate; 0.97 row: B column; 08
                                                                                                                                                                                                                                                                                                                                                                                                           High quality sequence stop: 40.
                                                                                                                                                                                                                          Email: ddunn@qenetics.ntah.edm
Insert Length: 10000 Std Erro
                                                                                                                                                                                                                                                                                                                                                                                                                                             bocation/Qualitiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /strain "C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A2 (1993) 1 - 01:10414705
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l (bases 1 to (2)
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                                                                                                                                                  101: 801 585 5606
                                                                                                                                                                                        Fax: 801 585 7177
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us-09-900-115-1.max.rst

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10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWD42 (qi14732114]qb/AF129072.1), a copy number inducible derivative of plasmid Rl. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BF184963 33 bp mRNA linear EST 31-OCT-2000 601843455F1 NIH_MGC_54 Homo sapiens cbnA clone IMAGE:4064436 5',
                                       308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ö:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               /lab host."E. Coli strain Xil0.Gold, T1-resistant, F-"/note-"Vector: PWD42nv; Purified genomic DNA from M. musculus C57B1/6J (male) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NIH-MGC http://mgc.nci.nih.qov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                          /clone_lib-"Mouse 10kb plasmid UUGC1M library"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Laboratory Mouse DNA Resource
                                                                                                                                    Email: ddunnydenetics.utah.edu
Insert Length: 10000 Std Error: 0.00
                                                                                                                                                                                     Plate: 0071 row: F column: 11
Seq primer: CACACAGGAAACAGCTATGACC
                                                                                                                                                                                                                                                                                                                            /organism-"Mus musculus"
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University of Utah Genome Center
                                                                                                                                                                                                                                                                                                                                                                         /db_xref="taxon:10090"
/clone="UUGC1M0071F11"
                                                                                                                                                                                                                                                          High quality sequence stop: 32.
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Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                   Location/Qualitiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                             /sex-"Male"
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                      University of Utah
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                                                                                        801 585 5606
                                                                                                              Fax: 801 585 7177
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BF184963
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Matches 15; Conserv
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KEYWORDS
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                                                                                                                                                                                                                                                                                FEATURES
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//inte="Organ: book or Frage." Site_2: Sfil (agrecatial age); Site_1: Sfil (agrecatial age); and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGGCCATIATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGGCGAGGCGGCGAATGC-4T(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.75 Kb (range 0.9-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched to full-length clones and was constructed by Clontech Laboratories (Palo Alto, A)."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GSS 27-APR-2001
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Dunn, D., Aoyadi A., Barher, M., Reacorn, T., Duval, R., Hamil, C.,
Islam, H., Londarte, S., Mahmoud, M., Meenen, E., Pedersen, T., Keilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A2970687 36 bp DNA linear GSS 27-APR-200
2M0243123R Mouse 10kb plasmid UDGC2M library Mus musculus genomic
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DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                              /clone_1 bh_NJH_MGC_54"
/clone_1 ibh_NJH_MGC_54"
/Lissue_type:"Trom chronic myelogenous leukemia"
/lab_host="DH10B (II phage-resistant)"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4; Indels
                                        found through the I.M.A.G.E. Consortium/ILMN, at: http://image.llnl.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Std Error: 0.00
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Mismatches
                                                                                           Plate: LLCM898 row: m column: 13
High quality sequence stop: 33.
Location/Qualifiers
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Class: plasmid ends
                                                                                                                                                                           1. .43
/ordanism-"Homo sapiens"
/db_xref-"taxon:9606"
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/orqanism-"Mus musculus"
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University of Utah Genome Center
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Fax: 801 585 7177
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                                                                                                                                                                                                                                                                                                                                                                                                                10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pWND2 (di[4742]14] qb[AFL29072.]), a copy-number inducible derivative of plasmid Kl. The vector was lighted with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into
                                                                                                                                                                                                                                                          Was hydrodynamically sheared by repeated passage through a 0.005 inch orilice at constant velocity. The sheared DNA was blunt end-repaired with 14 DNA polymerase and 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AZB71856 Linear GSS 21 FFB-2001
2M0184024R Mouse 10Kb plasmid UUGC1M library Mus musculus aenemie
clone UUGC2M0184024 R, DNA sequence.
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                                                                                                                                                     Zhotë "Veetor: PWD42nv; Purified genomic DNA from M.
muscolus C578L/5J (female) was obtained. From the Jackson
                                                                                                                                                                                                                                                                                                                                                                                             adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                                                                                                                     (http://www.jax.org/resources/documents/dnares/). The DNA
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1 (bases 1 to 37)
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Islam, B., Longarere, S., Mahmond, M., Morneri, E., Federsen, T., Beilty, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
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                                                                                                                             /lab_host "E. coli strain XL10 Gold, Tl resistant, F "
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ligated to the blunt ends in high molar excess. The
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                                                                      Zelone lib "Mouse 10kb plasmid BBGCZM library"
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                                                                                                                                                                                                            Laboratory Mouse DNA Resource
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                 Zelone "UUGC2M0243123"
                        Zdb xret "taxon:10090"
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/organism "Mas musculus"

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with adaptors complementary to the insert adaptors and purified. The sheated, adaptored memse bWA was annealed to adaptored vector DWA, and transformed into chemically competent E. coli XLIO Gold (Stratagene) cells and selected for ampleillin resistance."
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FLORE HIGH M. MAS MUSCULUS GENERAL
AZSOCAZZ
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1. (bases 1-to-08)
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                                                                                                                                                            /note "Vector: PWM/Zny; Purified genomic DNA from M. museulus C*ZPH_/6J (male) was obtained. From the Jackson Laboratory Mouse DNA Resource.
                                                                                                                                /lab host "E. Coli strain XL10 Gold, Tl resistant, F "
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University of Utah Genome Center
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10.5 Kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (dil4712114 gblAF129072.1), a copy number inducible derivative of plasmid Rl. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to
                                                                                                                                                                                                                                                       (http://www.jax.org/resources/documents/dnares/). The DNA was hydroxynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 was blunt end-repaired with T4 DNA polymerase and T4 polymeracited kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size selected for a 9.5 to
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1M0396001R Mouse 10kb plasmid UUGC1M library Mus musculus qenomic
close UUGC1M0396001 R, DNA sequence.
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                                                                                                                                      /lab host="E. Coli strain XLNO-Gold, T1-resistant, F-"/note="Vector: PWD42nv; Puiffied qenomic DNA from M.musculus C57B1/6J (male) was obtained from the Jackson
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/elone-"UUGChM038M11"
/elone_lib-"Mouse 10kb plasmid UUGChM library"
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                                                                                                                                                                                                                                  Laboratory Mouse DNA Resource
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Class: plasmid ends
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University of Utah Genome Center
University of Utah
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Fax: 801-585-7177
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10.5 kb range using preparative agarose gelectrophoresis. Vector DNA was prepared from a derivative of pWM42 (gi[4722]1721]14 gb[AE129072.1], a copy-number inducible derivative of plasmid RL. The vector was liquated with adaptors complementary to the insert adaptors and puritied. The sheared, adaptored mouse LNA was annoaled to adaptored vector DNA, and transformed into
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chNA Library Arrayed by: Greq Lennon, Ph.D.
bNA Sequencing by: Washington University denome Sequencing Perfect
Clone distribution: NGL-GGAP clone distribution information can be
found through the L.M.A.G.E. Consortium/JLNL at:
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                                                                                                                                                                                                                                                           (http://www.lax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oilgonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
                                                                                                                                                                              /note="Vector: PWD42nv; Purified genomic DNA from M. musculus C578L/6J (male) was obtained from the Jackson
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NCI-CGAP http://www.ncbi.nlm.nih.qov/ncicqap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                  /lab_host-"E. Coli strain XL10-Gold, 11-resistant, F-"
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/clone_lib="Mouse 10kb plasmid UUGCIM library"
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Live 0; Mismatches 4; Indels (
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                                 /db_xref="taxon:10090"
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KEYWORDS
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was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC. UT
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ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size-selected for a 9.5 to
                                                                                                                                     Znote "organ: colon; Vector: pCMV SPORIS; Site_1: Sall;
Site_2: Not1; Cloned unidirectionally. Primer: oligo dT.
Average insert size 1.7 kb. Life Technologies estalog #:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (http://www.jax.org/resonrees/documents/dnates/). The DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ848760 108S 21-FFB-200
2M0149G24R Mouse 10kb plasmid UUGCLM library Mus musculus aenomic
etone UUGC2M0149G24 R, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Verfebrata; Eufeleostomi;
Mammalia; Eufheria; Rodentia; Sciuroquathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 (bases 1 to 4+)
Dunt, D., Aoyaqi, A., Barber, M., Heacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, F., Reilly, M., Rose, M., Rose, R., Stokes, R., Tinqey, A., von Niederhausern, A. and Wright, D., Weiss, R.
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/note "Vector: PWD4Znv; Purified genemic DNA from M.
musculus C578L/6J (male) was obtained from the Jackson
                       Zelone "IMAGE:196.6569"
Zelone [ib "NOI_c6APP_0514"
XI SSUE Iype "Imoderalely-differentialed adenocaretnoma"
Zab_bost "DHIOB"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mouse whole genome scaffolding with paired end reads from 10kb
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Zelone_lib "Mouse lokb plasmid DuGJM library"
                                                                                                                                                                                                                                                                                                                                           63.0%; Score 12.6; DB 9; Length 43; 78.9%; Pred. No. 3.8e+05; ive 0; Mismatches 4; Indels
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Seq-primer: CACACAGGAACAGGIATGACT
Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism "Mus musculus"
/strain "C578L/6.1"
/db_xret "taxon:10090"
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University of Utah
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/db xref "taxon;9606"
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Contact: Robert H. Weiss
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Best Local Similarity
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KEYWORDS
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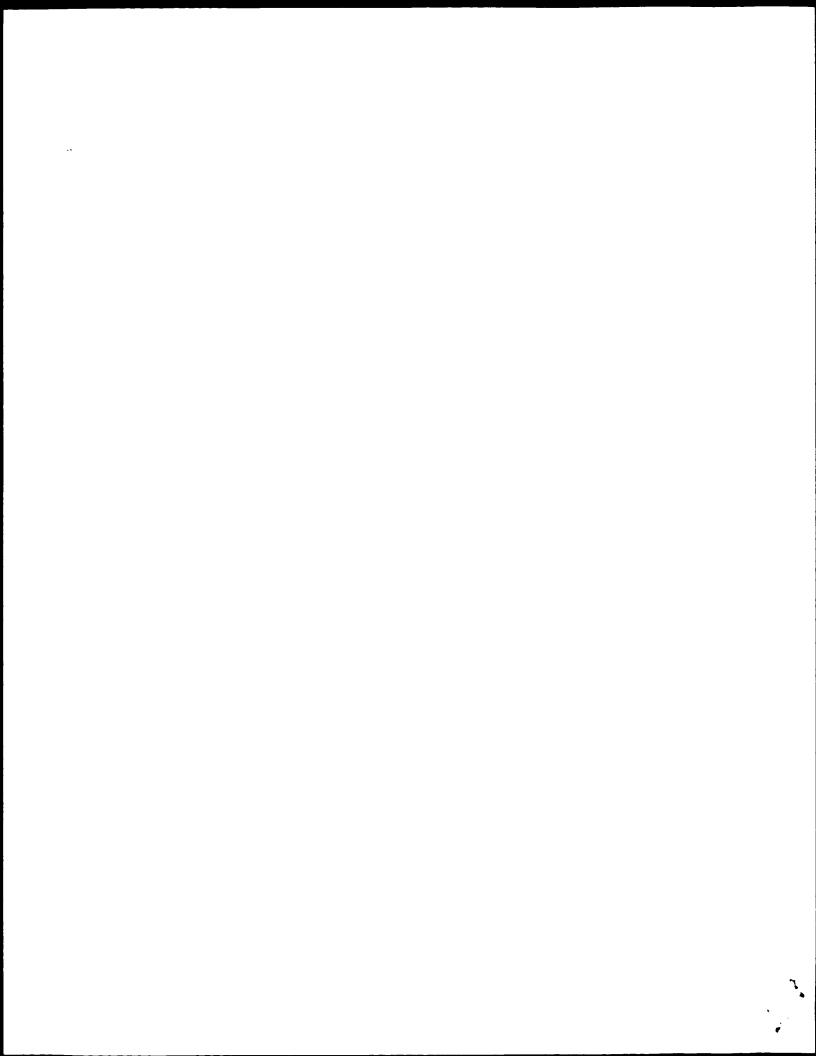
COMMENT

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with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mease DNA was annealed to adaptored vector DNA, and transformed into elemically competent E. coli XL10 Gold (Stratagene) cells and seelected for ampicillin resistance."
                                                          of pWDd2 (411474211414b[AF129072]), a capy-number inducible derivative of plasmid R1. The vector was lighted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4H bp DNA Linear GSS 27 AFK 2001
Clone UDGCZMO242FOH E, DNA sequence,
AZOG4145
10.5 kb range using preparative agarose get
electrophoresis. Vector DNA was prepared from a derivative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                408, Biomedical Polymers Research Bilder, 20 8, 2030 E., 317, UT
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ligated to the blunt ends in high molar excess. The
adaptored DNA was purified and size selected for a 9.5 to
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musculus C578L/6J (Female) was obtained from the Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (http://www.jax.org/resources/decuments/dnares/). The DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.005 inch orilice at constant velocity. The sheared DNA was blunt end repaired with 14 DNA polymerase and 14 \,
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Mammalia; Entheria; Rodentia; Scinroquathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dunn, D., Acyadi, A., Barber, M., Beacorn, T., Duval, H., Hamil, C., Islam, H., Londarre, S., Mahmond, M., Meetten, E., Pedersen, T., Refilly, M., Rose, M., Bose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wijdh, D., Weiss, R. Mouse whole genome scalfolding with paired end reads from 10kb.
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                                                                                                                                                                                                                                                                                                                                              Score 12.6; DB 17; Langth 43;
                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches 4; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: ddnnurgenetics.ufah.edu
Insert Length: 10000 - Std Error: 0.00
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Seq-primer: COLIGIAAAACACGCCAGT
Class: plasmid ends
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Robert B. Weiss
University of Utah Genome Center
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VERSION
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electrophorsis. Vector DNA was prepared from a derivative of pWM42 (qil4722114)gblAF129072.1), a copy-number inducible derivative of plasmid RU. The vector was ligated with adaptors complementary to the insert adaptors complementary to the insert adaptors are parified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for amplicillin resistance."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alch8702 49 bp mRNA linear EST 27-AUG-1998 outstand LS Sares testis_NHT Homo sapieus cluM clone IMAGE:1642032 4 smilar to SW-ROAL-SCHAM P21522 HELEMOSENBOUS NUCLEAR ETBONICLEOPERIEM AT, AZZHI HEMOJUG. ; contains PIR5.L2 MSRI reportitive element ; mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Contact: Kobert Strausberg, Ph.D.
Email: caapbs-rimail.nih.aov
CDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cona Library Arrayed by: Grea Lennon, Ph.D.
Ma Sequencina by: Washindron University Gerome Sequencina Center
Clone distribution: NCT-CRAP clone distribution information can be
tound through the L.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryoja, Metazoa, Chordatu: Craniata; Vertebrata, Euteleostomi;
Mammalia: Eutheria; Primates: Catarrhini; Heminidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (Dases 1 to 49)
| NCL-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
| National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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rnes, M., Kim, C.J., Parker, H., Frednis, L., Shinn, P.
d Beker, J.K.
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Znote "FeR was performed on Arabidopsis thatiana Lines
each of which contains one of more HBNA insertion
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11; Brassicales; Brassicaecae; Arabidopsis.
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ib "NOT COAP MARK"
type "Tumor, gross tissue"
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"taxon:10090"
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ence stop: 46.
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                                                                                                                                                                                                                                                                                                                                              AL628983 XGC-qastrmla Silurana tropicalis cDNA clone IGasOllq16-57,
            directly sequenced to defermine the genomic sequence at the site of insertion, betails of the protocols used can be found at http://siqual.salk.edu/tdna_protocols.html" a 10 c 6 g 18 t
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//dev_staqee."qastrula (stages 10.5-13 mixed)."
//dev_staqee."qastrula (stages 10.5-13 mixed)."
//dev_staqee."gastrula (stages 10.5-13 mixed)."
//dev_stage...gestrula (stages 10.5-13 mixed)."
//dev_stages 10.13 mixed trom fig to poly A- RNA from stages 10.13 qastrulae. EcoRI-NotI cut cDNA was then ligated into pcs107 with EcoRI at the 5' end and NotI at the 3' end."
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Location/Qualifiers
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Xenopodinae: Silurana.
1 (bases 1 to 50)
elements. The resultant tragment for each line was
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                                                                                                                              64.0%; Score 12.8; 68.17; Length 46; 87.5%; Pred. No. 4.7e+04; tive 0; Mismatches 2; Indels c
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TROPICALIS_SEQUENCE_ID: TGas011q16.sp6
Sequencing primer: SP6
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/organism="Silurana_tropicalis"
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87.5%;
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Matches 14: Conservative
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Trypanosoma brucei (IREU922/4 GHTat 10.1) was mechanically sheared
to after a tight size distribution (
4 kb). The v-i method used for the library construction is
described in detail in Smith, H. and Venter, J.C. (Making small
insert libraries for whole genome shotgum sequencing projects. In
Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Cente, The Wellcome Trust Genome Campus, Hinxton, Cambridge CBIO 18A, E-mail: barrell@sanger.ac.uk and nhl:sanger.ac.uk
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Enkarysta; Metazoa; Chordata; Craniata; Verfebrata; Enfeleostomi;
Mammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
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NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicqap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP).
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Hall N., Bowman, S., Lennard, N.J., Doqqett, J., Atkin, K.,
Chillingworth, C., Ormend, D., Harris, H., El-Sayed, N., Hou, L.,
Melville, S. E., Kajandream, M.A. and Barrell, B.G.
Direct Submission
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                                                                                                                                                                            Trýpanosoma brucei
Eukaryota; Bualenozoa; Kinetoplastida; Trypanosomatidae;
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Location/gualifiers
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/strain "TRE0427"
/db_xref "taxon:5691"
/clone="37h02"
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Contact: Robert Strausberg, Ph.D.
Email: cdapbs-remail.nih.gov
AL455061.1 GI:11854572
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Matches 14, Conservative
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Manumalia: Entheria; Prinates; Catarthin; Hominidae; Homo,
1. (Loses 1 to 50)
Suzuki, Y., Jaina, H., Tsunoda, T., Mizushima Sugano, L., Sese, J., Hata,
H., Ota, T., Lsoqai, F., Tanaka, T., Morishita, S., Okobo, K., Sakaki,
Y., Nakamura, Y., Suyama, A., and Sugano, S.
Diverse franseriptional initiation revealed by line, large scale
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/clone lib "Noti Satoh uspublished cDNA library, eqq"
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                                                                                                                                                                                                                                             AV957156 Noti Satch unpublished cDNA library, eqq Ciona intestinalis cDNA clone cieq10pl3 57, mRNA sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 10/4)
Satolo, N., Salou, Y., Kohara, Y., and Shin E, T.
Expressed quees in Giona intestinalis
Impublished (2000)
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Pred. No. 7.8e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: satoh⊴ascidian,zool.kyoto u.ac.jp.
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4 c 11 q 6 t
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sakyo ku, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-754-4081
Fax: 81-75-705-1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /tissue_type="whole animal"
/dev_stage="eqq"
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Contact: Yutaka Suzuki
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                                                                                                                                          /lab_host "DH10B"
/Lote-"Vector: pT714D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not 1: Site_2: Eco RI: 1st strand cbNA
was prepared from mRNA obtained from pooled 8-9 week
                                                                                                                                                                                                                                                                                                                             bomble-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloined into the Not I and Eco RI sites of the modified p1713 vector. Library went through one round of normalization, and was constructed by Mento Soares and M. Patima Bonaldo. "
                                                                                                                                                                                                                                                                         EST 25 - JUN-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Taylor, R., Ashursi, J.L., Croming, M.D. R., Zorn, A.M. and Roders, J. Sanger Xeopus troplealis ESI project 2002
Unpublished (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  O; Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence is from a Xenopus Gene collection (XGC) library constructed by Aaron M. Zorn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 12.4; DB 9; Length 43; Pred. No. 7.1e+04; 0; Mismatches 1; Indels
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Pred, No. 7,5e(04;
                                                                                      /clone_lib="Soares_total_tetus_Nb2HFB_9w" /dev_stage="8-9 weeks"
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Sequencing primer: PLKSP6
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/db_xref "taxon:8464"
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Email: tropdsanger.ac.uk
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/ordanism "Homo sapiens"
/db_xret="taxon:9606"
/elone "IMAGE:1658584"
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I (bases 1 to 49)
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                   Fmail: ysuzukivims.u-tokyo.ac.jp
suzukivy. yoshitomo.Nakaqawa.K., Maruyama.K., Suyama.A. and Suqano
.S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene zoo (1-2), 149-156 (1997).
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Location/Qualifiers
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Suzuki,Y. Taira,H., Isunoda,E., Mizushima-Sugano,J., Sese,J., Hat,H., ota,T., Isogai,F., Tanaka,F., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Suyano,S.
Diverse transcriptional initiation revealed by line, large-scale mapping of mRNA start sites
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4-6-1, Shirokanedai, Minatoku, Tokyo iU8-8639, Japan
Email: ysuzuki∾ims.u-tokyo.ac.jp
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
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Eukaryota: Metazoa: Chordata: Ctaniata: Vertebrata: Eureleostomi;

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Suzuki,Y., Taira,H., Tsuroda,T., Mizushima-Suqano,J., Sese.J., Hata, H., Ota,T., Isoqai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Suqano,S.

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Suzuki,Y., Taira,H., Tsunoda,F., Mizushima Sugano,J., Sese,J., Hatu,H., Cata,L., Isodail,J., Tainaka,I., Morishima Sugano,J., Sekski, Sakaki,T., Morshita,S., Okubo,K., Sakaki,Divejse transcriptional initiation revealed by time, large scale
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4-6-1, Shirokanedai, Minatoku, Tokyo ToB-8649, Japan
Email: ysuzukiëims.u-tokyo.ac.jp
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Suzuki,Y. Taira,H., Tsuroda,T., Mizushima-Sugano,J., Sese,J., Hata,H., eta,F., Isoaai,T., Tanaka,T., Morishita,S., okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
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Sazuki,Y., Yoshilomo Nakadawa,K., Maruyama,K., Suyama,A. and Susano
J.S. Construction and characterization of a full length-euriched and
a 57-end-euriched cDNA library, Gene 200 (1-2), 149-156 (1997).
Lacation/Qualifiers
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4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki≝ims.n-tokyo.ac.jp
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82.4%; Pred. No. 9.4e+04;
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/db xret "taxon:9606"
/elone "colF0414"
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EMBO Rep. 2 (5), 388-494 (2001)
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Department of Virology
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Enkaryolds Metaloos Chordatas Craniatas Vertetratus Enteleostennis Mannual Esseria Entherras Primatess Cararrhins: Hominidaes Home.

1. (bases Lisa Hi, Tsunodaell, Mirashima Susano, L., Sese, J., Hata J., H., Otall. Tsopai, L., Tsunodaell, Monishima Susano, L., Sese, J., Hata Y., Na, Annual Esseria, Monishima Susano, S., Okube, K., Sakaku Y., V., Nakamura, Y., Suyama, A., and Susano, S., Monishima Prima, Prima Seale mapping of miko start sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Institute of Medical Science, University of Tokyo
4 6-1, Shirokanedai, Minatoku, Tokyo 108 8649, Japan
Email: yssuvkielms ustokyosae, jp
Suzuki, Y., Yoshilomo-Nakadawa, K., Maruyama K., Suyama A. and Supuro
S. Construction and characterization of a full length enriched and
a 5°-end enriched cDNA library, Gene 200 (1.2), 149 166 (1997).
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1. (bases 1 to 90)
Suzuklyks, Laita, H., Tsomendayll, Mizushima Sugano, J., Sessell, Hata, J., St., Lotta, J., Londi, T., Tanaka, T., Morishima Sugano, G., Gebookk, Sakaki, J., S., N., Sakamita, Y., Suyama, A., and Sugano, S., Okupo, K., Sakaki, Diverse transgriptional initiation revealed by time, large scale
linear FEST to And good
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,S. Construction and characterization of a full length curiched and
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                       AULOGAON Sugaro Bomo sapiens chwa library Bomo sapiens chwa clone Culfol8s, mRNA sequence.
AULOGAON
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AU106409 Sugano Homo sapiens chNA library Homo sapiens chNA clone
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4-6-1, Shirokanedai, Minatoku, Tokyo 108-86-9, Japan
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Pred. No. 9.4e+04;
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1 (Dases 1 to 50)
Suraki,Y., Taira,H., Tsunoda,L., Mizushima-Suqano,J., See,J., Hata, H., ota,T., Isoqai,T., Tanaka,L., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Suqano,S.
Filverse transcriptional initiation revealed by line, large-scale mapping of mRNA start sites
EMHO Rep. 2 (5), 388-394 (2001)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                           /clone."roui.0677"
/clone.lib."Sugamo Homo sapiens cDNA library."
/note-"Differential display comparison of unfreated and
dimethyltumarate treated 1937 cells."
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dimethylrumarate treated U947 cells"
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Contact: Yutaka Suzuki
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Email: ysuzukijims.u-tokyo.ac.jp
Suruki,Y., Yoshitomo-Nakadawa,K., Maruyama,K., Suyama,A. and Sudan-,S. Construction and characterization of a full length-enriched and a 5'-cond-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
Location/cualitiers
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Suzuki/N. yshilomo-Makadawa,K., Maruyama,K., Suyama,A. and Shanb..
S. Construction and characterization of a full length-enriched and
a 57-and-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
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Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
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Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
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Privejse transcriptional initiation revealed by time, large-scale
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Snzuki,Y., Yoshitomo-Nakaqawa,K., Matnyama,K., Suyama,A. and Suqano
,S. Construction and characterization of a full length enriched and
a 57 end-enriched cDNA library. Gene 200 (1-2), 149 156 (1997).
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4 6-1, Shirokanedai, Minatoku, Tokyo 108 8639, Japan
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Email: ysucukivimus.ortokyo.ac.jp
Sozokiyy., Yoshitomo Nakadawa.K., Maruyama.K., Boyama.A. and Soquro
.S. Construction and characterization of a full length contiched and
a %? and contiched cDNA library, dence Zuu (1 2), 149 156 (1997).
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S. Construction and characterization of a full length enriched and
a 57 end-enriched clow, library, Gene 200 (1.2), 149-156 (1997).
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(Cosses 1 to 0)

Surak, N., Laita, H., Tsunoda, L., Mizuskima Sucarca, L., Sese, J., Hal, H., Ota, L., Lsocai, L., Tanoda, L., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A., and Sucarco, S., Okubo, K., Sakaki, Dryto, Cranseriptional initiation revealed by time, large scale mapping of mRA State Sites.

EMBO Rep. J. (5), ORC 493 (2001)
                                                             Mammalia; Entheria; Primates; Catarrhin; Howinidae; Hemo.
1 (bases 1 to 50)
Suzuki,Y., Taira,H., Tsuneda,F., Mizushima Sugano,J., Sese,J., Hat,H., Ota,T., Lografi,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamuta,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by time, large scale
Homo sapiens
Enkaryota; Metazoa; Chordata; Craniata; Vertebrata; Enteleostemi;
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Institute of Medical Science, University of Jokyo
4 6 l, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
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Institute of Medical Science, University of Lokys
4.6 L. Shitekanedai, Minateku, Tokyo Tuk 8639, Lapan
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Zdb xret "taxon:9606"
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EMBO Rep. 2 (5), 488 (93 (2001)
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Suzuki,Y., Yoshitomo-Nakaqawa,K., Maruyama,K., Suyama,A. and Suqano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
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Surukly., Taira,H., Tsunoda,T., Mizushima-Suqano,J., Sese,J., Hat,
.H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Ökubo,K., Sakaki,
.Y., Nakamuta,Y., Sugama.A. and Sudano,S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBG Rep. 2 (5), 388-393 (2001)
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Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
1 (bases 1 to 50)
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Znote "Hitterenfial display comparison of untreated and
dimethyltamarate freated 0937 celis"
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4 5-1. Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                                                                                                                                       61.0%; Score 12.2; DB 9; Length 50; 82.4%; Pred, No. 9.4e+04; live 0; Mismatches 3; Indels
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Pred. No. 9.4e+04;
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AU106433
AU106433.1 GI:14555954
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Homo supjeus
Enkarjota: Metazoa; Chordata; Craniata; Vertebrata; Enteleostomi;
Enkammalia; Entheria; Primates; Catarrhini; Hominidae; Homo.
I (bases 1 to 50)
Snzuki,Y., Taira,H., Tsunoda,T., Mizukima-Sudano,J., Sese,J., Hata,H., via,L., Isoqai,T., Tanaka,T., Morishita,S., okubo,K., Sakaki,Y., Nakamuta,Y., Suyama,A. and Suqano,S., okubo,K., Sakaki
Diverse transcriptional initiation revealed by time, large-scale
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Diverse transcriptional initiation revealed by line, large scale mapping of mRNA start sites
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Homo sapiens
Enkaryota: Metazoa, Chordata: Craniata; Vertebrofa: Enteleosfomi:
Mammalia: Entheria: Primates; Catarrhini: Hombuldae: Homo.
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Department of Vitology
Institute of Madical Science, University of Tokyo
Institute of Madical Science, University of Tokyo
Email: ysuzukigims.u-tokyo.ac.jp
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Pred. No. 9.4e+U4;
O; Mismatches 3;
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/clone="CoLF6266"
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/clone="ColF6598"
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Contact: Yutaka Suzuki
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,Y., Nakamita,Y., Suyama,A. and Sugano,S., ekubo,K., Sukaki
Diverse transcriptional initiation revealed by time, large scale
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Suzuki.Y., Yoshinom-Nakaqawa.K., Maruyama.K., Suyama.A. and Suqano
.S. Construction and characterization of a full length-enfelped and
a 5'-end-enfiched cDNA library. Gane 200 (1-2), 149 156 (1997).
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Institute of Medical Science, University of Tokyo
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Institute of Medical Science, University of Tokyo
4.5-1, Shieckanedai, Minatoku, Tokyo 108-8649, Japan
Bmail: ysuzuki ilms.u-tokyo.ac.jp
Suzuki,Y., Yoshiliomo Nakadawa,K., Matuyama,K., Suyama,A. and Suqane,
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a 5° end-enriched eDNA library, Gene 200 (1-2), 149-156 (1997).
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GenCore version 5.1.4_p5_4578 Copyright (c) 1993 - 2003 Compugen Ltd.

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March 18, 2003, 10:49:51; search time 470.82 Seconds (without alignments) 1236.261 Million cell updates/sec Run on:

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Database

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Klein, A. and Hatzfeld.J.
Method for gene transfer into cells activated from a quiescent
                                                                                                | (bases i to 21)
Klein,A. and datzteld,J.
Method for dese transfer into cells activated from a quiescent
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Location/Qualifiers
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100.0%; Pred, No. 2.2e.04;
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Sequence 19 from patent US 5763739.
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Markberg, L.Gustav., Edlund, M., Hansson, S.Lennart.,
Hernell, O.Carl, Edward., Lundberg, L.Gustav., Stromqvist, M.olot. and
Tornell, J.Kirger, Fredrik,
Nucleic acids encoding BSSL variants
Patent: US 5827684-A 19-27-007-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hernell, G.Carl, Edward, Lundberg, L.Gastay, Strongyist, M.celot, and Dornell, Editor. Fredrik.
Transquife non-human mammals producing BSE, Variants
Patent: US 576.7 89.8 L4 09. JUN-1998.
                                                                    Sides
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Blackbord, L. Gustav., Edlund, M., Hansson, S. Leumart...
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Sequence 19 from patent US 5827683.
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85,0%;
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Blackherg, Lidustav., Edbind, M., Hansson, S. Lennart.,
Hernell, o.Carl. Blackwid, Landberg, Lidustav., Strongyist, M.edot. and
Tornell, J. Birger, Fredrik.
Nucleic acids encoding BSE variants
Patent: US 5827684 A 14 27-e21 1998;
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Blockberg.L.Gustav., Edlund,M., Hansson,S.Leunart.
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AR012834
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         1 (bases 1 to 44)
Blackberg,L.Gustav., Edlund,M., Hansson,S.Lennart.,
Hernell,O.Carl.Edward., Lundberg,L.Gustav., Stromgvist,M.olof. and
Tornell,J.Binger.Fredrik.
Nucleic acids eacids eacids BSSL variants
Patent: US 5827683-A 15 27-007-1998;
Location/Qualifiers
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AN ANTISENSE DifferENCIDE PREPARTION METHOD
Patent: Wo 98.4904.A.7.65-AUS-1998;
BrodNOSFIK GES (198); BRYSCH WOLFGANG (DE)
Location/Qualifiers
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PAT 22-JAN-2000
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1. (bases 1 to 26)
Livak,K.J. and McBride,L.J.
Bissive internet for the detection of nucleic acid amplification products
fatent: US 573633-A 3 07-APR-1998;
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Hysel, w.D. and schlingensiepen,K.D.
An antisense oligonucleotide preparation method
Paten: EP 0856579-A 7 05-AUG-1998;
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Sequence 7 from Patent EP0856579.
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                                                                                                                                             Grahados, E.N., Bomma, S.R., Carrino, J.J., and Solomon, N.A.
Method and reagent for detecting multiple nucleic acid sequences in
a test sample
Patent: US 5955268-A 6.21-8EP-1999;
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Raginsa, R.P., Wondenforg, J.M. and Marmaro, J.M.
Fluorescence monitoring device with textured optical tube and
method for reducing background fluorescence
Parent: US 5972716 A 3 26 off-1999;
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Wittwer,C.T., Ririe,K.M. and Rasmussen,R.P.
Monitoring amplification of DNA during PYR
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AR074609
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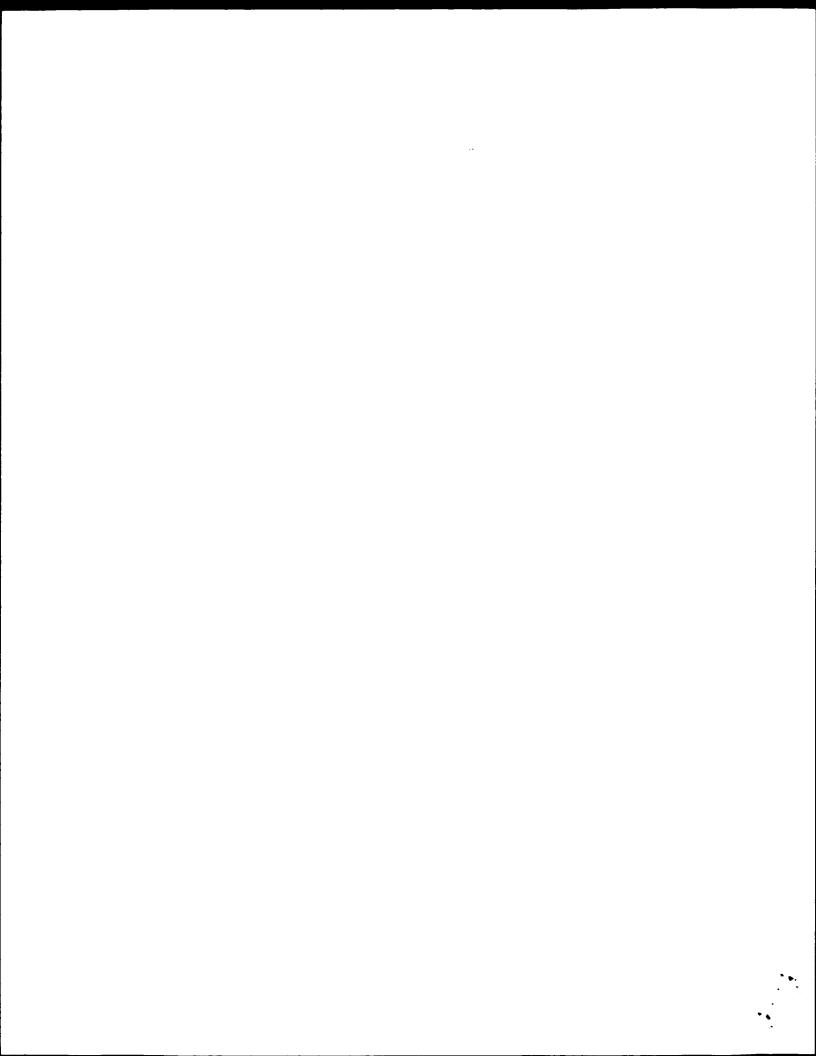
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Wittwer,C.I.
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[ (bases 1 to 26)
Vinayak, R.S., Lee, L.G., Mullah, K.B. and Rosenthum, B.B.
Methods and compositions for synthesis of labelled oligonucleotides and anoise on solid-supports
Patent: US 6255476-A 5 03-JUL-2001;
                                                                                                                                           1 (bases 1 to 26)
Vinayak_R.S., Lev.L.G., Mullah,K.B. and Rosenblum,B.B.
Winayak_R.S., Lev.L.G., Mullah,K.B. and Rosenblum,B.B.
Methods and compositions for synthesis of labelled oliqonucleotides and analogs on solid-supports
Patent: US 6255476-A 4 03-JUL-2001;
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AUTHORS Livak, K.J., Flood, S.J.A., Mamoro, J. and Mullah, K. Hashar.

TITLE Hybridization assay using self-quenching fluorescence probe
Lodbeal Parent: US 6258569-A 9 10-Jul.-2001;
FEATURES Lordion/Onalifiers
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GenCore version 5.1.4\_p5\_4578 Copyright (c) 1993 - 2003 Compugen Ltd.
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AM nucleic - nucleic search, using sw model

March 18, 2003, 10:48:56; Search time 110.82 Seconds (without alignments) 406.426 Million cell updates/sec Run on:

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2185239 seqs, 1125999159 residnes searched:

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Minimum DB seq length: 0 Maximum DB seq length: 50

Listing first 1000 summaries Maximum Match 100% Post-processing: Minimum Match 08

N_Geneseq_101002:* Database :

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Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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449 AAD (449 standard; DNA; ZO BP. AAD (449; AAD (449; D1-JUL, 2002 (first entry) FGP betal antisense eliquinelectide. FGP betal antisense eliquinelectide. FGP betal antisense interesting between thymemas germ cell tuncintiple myelomas melanomas harmatopeielic disease; thrombocylopaeniandifiple myelomas melanomas harmatopeielic ss. FGP betal antisense eliquinelection and triple myelomas melanomas harmatopeielic ss. FGP betal antisense eliquinelection and for a first production and first productio						ALLGNMENTS	
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AAD 0.049; Objust 2002 (first entry) FSF betal antisonse oliqonneleotide. FAR betal antisonse oliqonneleotide. Farstorming growth factor; TGF beta; cancer; thymenna; germ cell formultiple myeloma; melanoma; haematopoietic discuse; thrombocytopaeni. Farce therapy; cytostatic; haematopoietic discuse; thrombocytopaeni. Farce therapy; cytostatic; haematopoietic ss. Farce therapy; cytostatic; haemostatic; ss. Farce therapy; cytostatic; haemostatic; ss. Farce therapy; cytostatic; haemostatic; ss. Farce therapy cytostatic; haematopoietic discuss: thrombocytopaeni. Farce therapy cytostatic; haematopoietic discuss: thrombocytopaeni. Farce therapy cytostatic; haematopoietic discusse; thrombocytopaeni. Farce therapy cytostatic; haematopoietic discusse; thrombocytopaeni.	Ş	2	tandard	: VN	9 07		
D1.JUL 2002 (first entry) The betal antisense olidomucleotide. Thanstorming growth factor; TGP beta; cancer; thymomas germ cell functuality to myelomas melanomas harmatopoietic disease; thrombocytopaenismididentified. Moz00204479-AL. 17 JAN 2002. 56 JUL 2001; 200100 216256P.	Ž	1449					
TGF betal antisense oligomocleotide. Danstorming growth factor; TGF beta; cancer; thymomas germ cell tune multiple myelomas melanomas hacmatopoiette disease; thrombocytopaenispere therapy; cytostatic; hacmostatic; ss. Inidentified. Wo200.04479-Al. 17 JAN 2002. 06-JUL 2001; 2001We US21420.	=		(117	t entr	<u> </u>		
Transforming growth factory TGP fortax cancer; thymomas going cell fund multiple myelomas melanomas harmatopoietic disease; thrombocytopaenis pere Therapy; cytostatic; harmostatic; ss. Inidentified. Mo200204479-Al. 17 JAN 2002. 56 JUL 2001; 200109 216256P.	2	-		-			
Dransforming growth factory TGP betay cancer; thymemas germ cell fundatified myelomas medanomas hacmatopoietic disease; thrombocytopaenik pere Therapy; cytostaticy hacmastaticy ss. Inidentified. Mo200204479-Al. 17 JAN 2002. 2001; 2001We US21420. 26 JUL 2001; 2001WB 216256P.	7.	=	30.0 TSOE	ğ-10 .ş		Level Taley.	
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17 JAN 2002. D6-JUL 2001: 2001WO US21420 D6-JUL 2000: 2000US 216256P	ž	0.20447					
06-JUL 2001; 2001Mr US21420 06 JUL 2000; 2000US 216256P	17	007 NV	۷.				
96 JUL 2000; 2000US 216256P	9	H. 200	1; 2001		7.0		
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including ovarian cancer, thymomas, germ cell tumours, multiple myeloma, melanoma, testicular cancer, lung cancer and brain cancer as well as for other non-malignant bacematopoietic diseases, e.g. thrombocytopaenia.
                                                                                                                                                                                                                                   blocking agent fronted buman stem cell compositions which are capable of
                                                                                                                                                                                                                                                 rapid in vivo reconstitution of the haematopoietic system of a subject. The emposition composition of which will be a conjugate of the hamon stem cells, the stem cells treated evivos with an objection and issues to TGP beta, where the viability and differentiation state of the stem cells is preserved in culture longer than stem cells not subjected to TGP beta antisense treatment. The human stem cell composition is nested for promoting the rapid centraliment of long term repopulating harmatopoietic stem cells (LIR BSC) following in vivo administration and lacilitate the rapid proliteration of LIR BSC in vitto. The BSC
                                                                           New homen stem cell composition, assetul for freating various cancers, ceq. overlan concer, inclanoma, lesticular cancer, fund cancer of brain concert, as well as for other non-malignant hematopoictic discases, c.q. thrombocytopenia
                                                                                                                                                                                                                the present invention relates to transforming growth factor (19F) hera
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fibroblast growth factor: FGF; antiscose; As FGF; inhibitor; therapy; Wistor Kyoto card actific smooth muscle cell; EASMS lipscomes straker; harmongfulling neuraminidase; HN; Sendai virus; SV; Appertension; LFE; Fiposeome forming lipid; restenosis; hyperpelasia atheraselerosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequences of the invention are also used in gene therapy. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8400 to
                                                                                                                                                                                                                                                                                                                                                                                                                               containing cell population is useful for treating various cancers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 20; DB 24; Length 20;
100.0%; Pred, No. 42;
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transforming growth factor betal; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence is TdF betal antiscuse oligonucleotide.
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                                                                                                                                                                        Claim St Page 47: Spps English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AATUS419 standard; mRNA; 24 BP.
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Bartelmez SH, Iversen PL;
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                                      WPT: 2002 195761/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WP1; 1995 40 8876 751.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (DZAUZ) DZAU V J.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10 MAY-1994;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16 NoV 1995.
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AAT0541970
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antisense oliqomer helps prevent restenosis, after cardiovascular

andioplasty.

TGFb1. When administered to a site of lesion tormation the

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                                                                                                                                                                                This sequence represents a fragment of human transforming growth factor-betal (TGF-betal) mkNA. The antisense sequence represented by AAT05420 was created from this sequence. AAT05420, AAT05421, AAT05431, AAT05433, AAT05435 and AAT05414 all represent autisense oliqonucleotides that are used in the liposomes of the invention. The liposomes of the invention are produced by combining two liposomes to produce a liposome for fusion with cells. The lirst
                                                                                                                                                                                                                                                                                                                                                                                                                                    liposome is produced by agitating purified haemagglutinin-neuraminidase (HN), and fusion proteins of Sendai virus (SV) with liposome forming
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAQ^{7,\psi d} H is a human TGF-beta(1) (hTGFb1) mRNA, it was used in development of an antiseuse oligomer which inhibits the expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
Produ. of liposome(s) for fusion with cells - used esp. for delivery
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restenosis prevention; cardiovascular angioplasty; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Inhibiting cellular activity associated with vascular lesions
                                 of antissense metere acids to inhibit cellular proliferation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       with antisense oligomers against eyelin or eyelin dependent
kinase genes, partic, for preventing restenosis after
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 20; DB 16;
100.0%; Pred. No. 31;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    myocardial hypertrophy, strokes and aneurysms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 24 BP; 1 A; 14 C; 6 G; 3 U; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (STRD ) UNIV LELAND STANFORD JUNIOR.
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                                                                                                         Example 5; Page 52; 98pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAU75041 standard; mRNA; 24 BP
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Matches 20; Conservative
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20-AUG-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequences (AAQ81238-304) represent the target sites where a ribozyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    associated with the Aevelopment or maintenance of fibrous or connective
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (hammerhead, hairpin, hepatitis delta virus, group 1 intron or RNaseP RNA motif) cleaves the mRNA of the transforming growth factor-beta (TGF-beta) game. This sequence corresponds to bases 833-850 of the TGF-beta mKNA. The ribozymes can also target the mKNAs of genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                       group 1 intron; KNaseP RNA motif; transforming growth factor-bela; TCF-bela; ibrous; connective; tissue disease; TGF-alpha; inhibin; epidermal growth factor; EGF; activin; amphiregulin; insulin; bone morphogenic protein; fibroblast growth factor; relaxin; ss.
                                                                                                                                                                                                                                                                                                                                                                                                         darget site, ribozyme, hammerhead; hairpin, hepatitis delta virus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Enzymatic RNA molecule with, e.g. a hammerhead or hairpin motif - cleaves mRNA associated with fibrous or connective tissue disease, and is useful for treatment or prophylaxis of such
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                                                                                              Length 24;
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                                                                                                                                                                                                                                                                                                                                                                           Ribozyme target sequence in TGF-beta mRNA (bases 833-850).
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                                                                                              DB 16;
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                                                              Sequence 24 BP; 1 A; 14 C; 6 G; 3 U; 0 other;
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100.08; Pre
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                                                                                                                              20; Conservative
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hes 18; Conserv
                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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consecutive cytosines, do not contain two sequences of three consecutive nucleotides each able to form three M-bonds to three consecutive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     eytosines, and the ratio between residues able to form two H-bonds each (ZR) or three such bonds (3R) is given by 2R/4\kappa = 0.3 \times 0.72. The objequence of the used to mead are expression of acres, particularly the genes for p5.4, EtbE-2, junB, junB, TGP-beta J or beta 2 to control proliferation of primary cell cultures (e.g. bone marrow stem, liver or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transforming growth factor beta 1 (TGF beta 1). The offgormeterfides exemplify the invention. The specification describes ofigurance of ides. That contain 8 to meteorides that can each form three hydrogen bonds to cytosine; do not contain four consecutive nucleotides able to form three fideroses between three processings ones to four consecutive nucleotides able to form three fibonds each to four
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      kidney cells, osteodasis, osteoblasts and/or keratimocytes). The oligomorfeotides can also be used to analyse function of proteins (by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Preparation of antisense oligo:nucleotide(s) which thek long times of consecutive database on incidence and have specific ratio of residues able to form two or thee hydrogen bonds, have areater activity and reduced toxicity, used therapeutically or to modulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             aftering their expression or activity) and therapeutically, e.g. in cases of cancer or (targeting TGF) for stimulating the immune system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV48412 84 represent antisense oligomedeetides directed against
                                                                                                                                                                                                                       fransforming growth factor beta 1 antisense oligonucleotide A3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 19; Length 21; 5e+02;
                                                                                                                                                                                                                                                       Translorming growth factor beta-1; TGF beta-1; antisense oligonucleotide; modulate; gene expression; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (BIGG ) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 3 A; 5 C; 12 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1: Fig 3a; 286pp; English.
                                                                                              AAV48412 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schlingensiepen K;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          97EP 0101541.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               97EP 0101541.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             85.08:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      arowth of cells in culture
                                                                                                                                                                                (Tirst entry)
TR GOODSON A FORGOODS 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WP1: 1998 400910/45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Similarity
                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                        $1. UAN 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               41 JAN 1997;
                                                                                                                                                                            15 0871 1998
                                                                                                                                                                                                                                                                                                                                                                          EP856579 AT
                                                                                                                                                                                                                                                                                                                                                                                                                 05 AUG 1998
                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Brysch W.
                                                                                                                                     AAV48412:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Duery Mateh
                                                         RESULT 5
                                                                             AAV4H412
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The invention relates to polypeptides comprising a cystine knot motif and
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treating, preventing, ameliorating or defecting discusss and disorders of
the kidney (e.g. anemia, hypertension or low blood pressure), heart (e.g.
                                                                                                                                                                                                                            cheaked 2: eystine knot matif; nephrotropie; cardinot; immenoamedalator;
appared rejets and inclaimed ory; and if hyroid; eytostable; neuroprotectives
and immens; hypotensive; and introphrotromics and introduced are
antidiabetic; anorestic; quee herapy; cell therapy; antisense therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Grave's disease or myxedemu) or adrenal cortex (e.g. Cushina's disease or Addison's disease), homeostasis or metabolic diseases (e.g. obesity,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                screening. The present sequence represents a PCK primer for cloning the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   designated as cloaked 2, derived from human and mouse. The cleaked 2 polypeptides can be expressed by standard recombinant methodology. The cloaked 2 polynucleotides are useful in gene therapy and antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cloaked 2 polypeptides or to detect Cloaked 2 polypeptide levels in a sample. Itomstenie non-human animals are useful tor drug candidate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New homen and member cystine knot polypaptide designated as charked 2, for treating or preventing Kidney, heart (e.g. myneardial infarction) or liver (e.g. hepatitis) diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cardiac hypertrophy, convestive beart failure, myocardial infarction, arthythmias, attenderes is, hypertropsion tow hong pressure), skeled all muscle (e.g. muscleard dystrophy or eachexia), placenta (e.g. conveniental abnormalities or miscarriage), liver (e.g. hepatitis or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Self-S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer or myopathies), infectious, or autoimmune diseases. Selective
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 binding agents may be used to modulate the biological activities of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cirrhosis), parereas (e.g. diabetes or panereatitis), thyroid (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 15.2; DB 24; Jenqth 45;
Fred, No. 2,5ee03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7. J. - F. - E. -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 45 BP; 9 A; 19 C; 8 G; 9 1; 0 other;
                                                                                                                                                           Monse cloaked 2 chNA eloning forward primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mouse cloaked 2 polypopited encoding cONA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 2: Page 139; 170pp; English,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAV48418 standard; DNA; 18 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 dArabacter/Alexandarativate zu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4) GNOOG TO CALCADA SAN TZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29 MAY: 2001; 2001WO UST7478.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               76.083
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                                                                             (filts! entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                               PCR primer, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SHOROS TOROS NOT LO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   200002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPT: 2002 114 QF/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AMGE ) AMGENTING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Paszty CT, Cao Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WOZBOTSZKOB AZ.
                                                                         26 MAR 2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04 AUG 2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06 pEC 2001.
ABA 407;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAV48418;
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                                                                                                                                                                                                                                                                                                                                                                                                   HOMSe.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 7
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S # 11

Indels

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0; Mismatches

Conservative

17:

Matches

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RESULF 6 ANO94-007/c TD ABA94-007 Standard: DNA; 45-89;

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FESULT 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  consecutive cytosines, do not contain two sequences of three consecutive uncleotides each able to form three H-bonds to three consecutive cytosines, and the ratio between residues able to form two H-bonds each (2R) or three such bonds (4R) is given by 2K/R = 0.33-0.72. The olioponteleotides are used to modulate expression of genes, particularly the genes for F33. Eiths 2, juns, junb, 10F, beta 1 or beta 2 to control profiteration of primary cell cultures (e.g. bone marrow stem, liver or oliopouteleotides can also be used to analyse function of profesion of priceins (by altering their expression or activity) and therapeutically, e.g. in cases of caucer or (targeting TGF) for stimulating the immune system.
                                                                                                                                                                                                                                                                                                                                                                                                           AAV48412-84 represent antisense oblgonucheotides directed against transforming growth factor beta-1 (IGF beta-1). The eligenucheotides exemplify the invention. The specification describes oblgonucleotides that contain 8.10 nucleotides, which contain at most 8 nucleotides that can each form three hydrogen bonds to eynosine; do not contain four consecutive nucleotides able to form three H-bonds each to four
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                             Preparation of antisense oligo:nucleotide(s) which lack long runs of
                                                                                                                                                                                                                                                                                                                         consecutive quanosine or inosine - and have specific ratio of
residues able to form two or three hydrogen bonds, have greater
activity and reduced toxicity, used therapentically or to modulate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :`
≘
                                  Transforming growth factor betarl antisense oligonucleotide N6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              75.0%; Score 15; DH 19; Length 18; 100.0%; Pred. No. 3.2e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acid probe #2 incorporating black hole quencher.
                                                        Transforming growth factor beta-1; TGF beta-1;
antisense oligonucleotide; modulate; gene expression;
                                                                                                                                                                                                                                  [BI:43-] BI:43NOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 18 BP; 2 A; 4 C; 11 G; 1 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Pred. m.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Black hole quencher; BHQ; probe; ss
                                                                                                                                                                                                                                                                                                                                                                                     Example 1; Fig 3a; 286pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABK14716 standard: DNA; 23 RP.
                                                                                                                                                                                                                                                          Schlingensiepen K;
                                                                                                                                                                                                            97EP-0101541.
                                                                                                                                                                                                                                                                                                                                                              growth of cells in culture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23 APR 2002 (first entry)
           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ouery Match
Best Local Similarity 100.
Matches 15, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 GAGGGGGGGATGGGG 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4 GAGGGGGGCAFGGGG 18
                                                                                                                                                                                                                                                                                  WPI: 1998-400910/35.
          15----1998
                                                                                                                                                                                   11 - JAN - 1997;
                                                                                                                                                                                                           11 - JAN - 1997;
                                                                                                             Homo sapiens
                                                                                                                                 EP856579-A1
                                                                                                                                                           05 - AUG - 1998
                                                                                                                                                                                                                                                            Brysch W.
                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AHK:4716;
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The invention relates to a black hole quencher (BHU) (1) of excited state energy having a structure comprising at least three radicals from optionally substituted aryl and/or beteroaryl, where at least two of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                radicals are covalently linked through an exoryclic diazo bond. The quencher further comprises a reactive functional aroup providing a locus for conjuantion of the quencher to a carrier molecule. (1) is useful for (a) determining whether a sample contains an enzyme; (b) determining multiple a companient of a neuzyme; (c) determining nucleic acid aromponence; (d) determining a multiple and around alternate sequence; (d) determined a sequence; (e) acceptaining whether a first nucleic acid and a second
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid hybridise; (i) probing a microarray for the presence of a compound; and (q) detecting or quantifying a molecular species. The present sequence represents a probe incorporating an exemplary BHQ used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel black hole quenchers for detecting and quantifying chemical and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Saps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         biological substances, contains optionally substituted anyl and/or beteroaryl radicals, covalently linked through exocyclic diazo bond
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ċ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       74.0%; Score 14.8; DB 24; Length 23; 88.9%; Pred, No. 3.8e+03; Indels 0; Mismatches 2; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tagman probe: hybridisation probe: primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 24 BP; 2 A; 14 C; 4 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /mod_base_ofHer
/note="ofHer_ramma"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Location/walifiers
                                                                                                                                                                                                                                                                                                                                         (BIOS-) BIOSEARCH TECHNOLOGIES INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "OTHER FAM"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure: Fiq 8: 95pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mod_base offHER
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                                                                                                                                                                                                                                                                      09-MAY-2000; 2000US-0567864.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              88.9%;
                                                                                                                                                                                                    08-MAY-2001; 2001Wg-0515082.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 Addd:103:7ATGGGGGAGG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (tirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21 AGGATGGGATGGGGGAGG 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 88.9
Matches 16, conservetive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /*tad
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                                                                                                                                                                                                                                                                                                                                                                                                        Lyttle M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI: 2002-147491/19.
                                                               Wo200186001 AL
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                                                                                                                                 15 · NoV · 2001.
Synthertie.
                                                                                                                                                                                                                                                                                                                                                                                                    COOK RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF23539;
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for amplifying DNA by PCR, nucleic acid sequence based amplification (MASRA) and/or strand displacement amplification (SDA). The probes detect nucleic acids rapidly, reliably and quantitatively with high sensitivity. The present sequence is one such probe.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAP probe: hybridisation probe; primer; contormationally assisted probe;
                                                                                                                                                                                                                                                                                                                      The present invention relates to movel probes, which can be used as hybridisation probes for analysing and quantitating target nucleic acid by 5'-nuclease assay and/or rolling circle amplification and as primers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0; 0.408
                                                                                                                                                                                                                                            New nucleic acid compounds used as primers for amplifying DNA and conformationally assisted probes for analyzing or quantitating DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 14.8) DB 22; Length 25;
Pred. No. 3.8e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 25 BP; 5 A; 4 C; 13 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatehos
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/note="OTHER_CHOL:1AMRA"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           contormationally assisted probe; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualitiers
                                                                                                                                             (RIOS ) BIOSEARCH IECHNOLOGIES INC
                                                                                                                                                                                                                                                                                           Example 1: Page 54; 71pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER
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88.9%;
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                                                               08 JUN 2000; 2000MO USI6148
                                                                                              9908 0138376
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /*Tag a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF23640 standard; DNA;
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25
                                                                                                                                                                                                            WPL; 2001 080601/09,
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Bost Local Similarity
W0200075478-A1
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modified base
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for amplitying DNA by PCR, nucleic acid sequence based amplification (NASRA) and/or strand displacement amplification (SDA). The probes detect nucleic acids rapidly, reliably and quantitatively with high sensitivity. The prosent sequence is one succh probe, a contornationally assisted
                                                                                                                                                                                                                       The present invention relates to novel probes, which can be used as hybridisation probes for analysing and quantitating target nucleic acid
                                                                                                                                                                                                                                                              5° nuclease assay and/or relling circle amplification and as primers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "optionally labeled with quencher TAMKA, DARYE, BHI, BHZ, or BH3"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel black hole quenchers for detecting and quantifying chemical and biological substances, contains optionally substituted anyl and/or heteroary) radicals, covalently linked through exorgetre diazo band
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sel is
                                                                                                                  New nucleic acid compounds used as primers for amplifying \overline{n} M A and conformationally assisted probes for analyzing \alpha quantitating \overline{n} M A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
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                                                                                                                                                                                                                                                                                                                                                                                                                                          74.0%; Score 14.8; DB 22; Length 25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Se A
"optionally laboled EAM, Cyton Cyta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               lude is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         bual labeled probe; black hole quencher; PBQ; probe;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred, No. 3.8e+03;
0; Mismatches 2.
                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 25 BP; 5 A; 4 C; 13 G; 3 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/gualitiets
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(BIOS ) REOSEARCH HEWROLDSTES INC.
                                                                                                                                                                             Example 1: Page 55; /lpp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABKI4714 standard; DNA; 25 BP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   09-MAY 2000; 2000US 0567863.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Z. AGNOSCOPTA PANAGONOS 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4 AGGATGGTALGGGGAAGG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Tirst entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                 probe (CAP).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABK14714;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
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                                       Cook KM;
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rhodamine; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mayrand PE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                  AAT43558;
                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                              AAT43558/C
                                                                                                                                                                                                                                                                                                                                  RESULT 13
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                                                                                                                                                                                                                                                                                                                                                                      0
                                                     optionally substituted aryl and/or hereroaryl, where at least two of the radicals are covalently linked through an exocyclic diazo bond. The quencher further comprises a reactive functional group providing a locus for conjugation of the quencher to a carrier molecule. (1) is useful for: (a) determining whether a sample contains an enzyme; (b) determining when her a compound alters an activity of an enzyme; (c) detecting a nucleic acid target sequence; (d) detecting amplification of a target
                              The invention relates to a black hole quencher (BHQ) (I) of excited state enorgy having a structure comprising at least three radicals from
                                                                                                                                          sequence; (e) ascertaining whether a first nucleic acid and a second nucleic acid hybridise; (f) probing a microarray for the presence of a compound; and (q) detecting or quantifying a molecular species. The present sequence represents a dual labeled probe used in the method of
                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ester qp. attached fluorescein's 6 carbon with a 5'-aminophosphate attached to the 5'-terminal deoxyadenosine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "tetramethylrhodamine mol. compled to the
base moiety of the thymadine via an amino
linking agent"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /*tag= a
/note= "fluorescien mol. coupled by reacting NHS-
                                                                                                                                                                                                                                                                     :
O
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Finorescently labelled probe for DNA encoding human beta-actin.
                                                                                                                                                                                                                                            Length 25;
                                                                                                                                                                                                                                                                   Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; beta-actin; tetramethy]rhodamine; fluorescein;
labelled probe; real time; monitor; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Saviano PG, Shiqeura J, Tracy DH, Woudenberg TM;
                                                                                                                                                                                                                                          Score 14.8; DB 24;
Pred. No. 3.8e+03;
0; Mismatches 2:
                                                                                                                                                                                                                   Sequence 25 BP; 4 A; 13 C; 4 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
       Example 4; Page 64; 95pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                AAFG6020 standard; DNA; 26 BP.
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                                                                                                                                                                                                                                           74.08;
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                                                                                                                                                                                                                                                                                          2 AGGGGGGCATGGGGGAGG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                    22 AGGATGGCATGGGGAGG 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (PEKE ) PERKIN-ELMER CORP.
                                                                                                                                                                                                                                                   Best Local Similarity 88.9
Matches 16; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 1995-393162/50
                                                                                                                                                                                          the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19 APR-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                9661-NIII-10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthet.ic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Young EF;
                                                                                                                                                                                                                                                                                                                                                                                                         AAT06020;
                                                                                                                                                                                                                                          Query Match
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                                                                                                                                                                                                                                                                   Matches
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AAI41558-143561 are random oligonucleotide probes capable of hybridising to a target polynucleotide (PN). They have a fluorescer molecule (FM) statement to their 5'-ends and a quencher molecule (QM) attached to the other end, such that the QM quenches the fluorescence of the FM when the probe is in a single-stranded state. The fluorescer stays unquenched
                                                                                                                                                                                                                                 A 296 bp sequent of a target DNA encoding human beta-actin was PCK amplified using the primer pair AAT06018/19, and the fluorescein and fetramethylrhodamine labelled probe AAT06020. By transmitting an excitation beam by a fibre optic into the vol. of the reaction mix. Via a coaxial lens, the 2 fluorescent indicators generate signals proportional to the amount of amplification prod, and vol. of reaction mix. This property can be used to measure, in real time, the polynucleotide prods, from the nucleic acid amplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fluorescein-labelled probe used for combined amplification/detection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
Real-time monitoring of nucleic acid amplification reaction - using
two fluorescent indicators generating signals proportional to amount
of amplification prod, and volume of reaction mixture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Objection to probe for combined amplification and hybridisation process - has fluorescer mot, at one end with quenching mot, at the other end and is used in absence of 5′ to 3′ exonuclease activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Probe; hybridisation; PCR; polymerase chain reaction; primer; amplification; detection; labelled; fluorescence; quencher;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*tag~ a
/note= "labelled with 6-carboxyfluoresceiu"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              74.0%; Score 14.8; DB 16; 88.9%; Pred. No. 3.8e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                          Example: Page 13; 29pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 1: Page 16; 24pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 AGGGGGGGATGGGGGAGG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (PEKE ) PERKIN-ELMER CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity 88,9
Matches 16, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22 AGGATGGCATGGGGGAGG
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in a single reaction vessel using a single reagent. Also, amplification and probing steps are performed in a combined manner such that no reagent additions are required subsequent to the amplification step.
                                        67 to 37 exonuclease activity of a polymerase. The probes are used in a combined PER amplification and hybridisation probing method. Using the method, combined amplification and hybridisation probe detection of amplified nucleic acid target sequence can be carried out
              its target). The probes also have 5'-modifications, e.g. phosphoramidite bonded, to render them impervious to digestion by the
                                                                                                                                                                                                                  Caps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           useful to, e.d.
  when the probe is in a double stranded state (i.e. hybridised to
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Primer; probe; target sequence; uncleic acid amplification;
polymetase; fluorescent reporter molecule; quencher molecule; ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
"Linker arm nucleotide phosphoramidite"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Linker arm nucleotide phosphoramidite"
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                                                                                                                                                                                  74.0%; Score 14.8; DB-17; Length 26;
                                                                                                                                                                                                               2; Indeds
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Self quenching fluorescent elippinucleotide probemonitor nucleic acid amplification reactions
                                                                                                                                                                                                  Pred. No. 4.8e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mullah KB;
                                                                                                                                                        Sequence 26 BP: 3 A; 13 C; 4 G; 6 E; 0 other;
                                                                                                                                                                                                              0; Mismatches
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                                                                                                                                                                                                                                                                                                                                         AAT (2422 standard; DNA; 26 BP.
                                                                                                                                                                                                  88.5%;
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                                                                                                                                                                                                                                           Z AGGGGGGGATGGGGGAGG 19
                                                                                                                                                                                                                                                                                                                                                                                                (tirst entry)
                                                                                                                                                                                                                                                        22 AGGATGGGAGGAGG S
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                                                                                                                                                                                                              16; Conservative
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                                                                                                                                                                                                 Best Lowal Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                                                                           Probe AL
                                                                                                                                                                                                            Matches
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during amplilication to separate the reporter molecule from the quenches
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                                                                                                                                                                                                                                                                                                                                    sequence where the thorescence of the reporter molecule is unquenched.

    relative to the primer. The probe has a fluorescent reporter
molecule and a quencher molecule capable of quenching the fluorescence

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Capture probes AAL93058 59 were used to detect a partion of the Human beta actin gene (AAL93050). The probes are labelled with a
                                     The sequences given in AAT32414-27 represent primers, probes and target sequences used in the method of the invention for monitoring nucleic acid amplification. The method comprises performing nucleic acid amplification using a polymerase having $5.3 nuclease activity, a a primer capable of hybridising to the target polymeresedide and an olimenteedide probe capable of hybridising to the target sequence of relative to the primer. The probe has a fluorescent reporter
                                                                                                                                                                                                                                                                                                                                                      The Huorescent intensity of the reporter molecule being greater that the Uncrescent intensity of the quencher molecule when the probe is
                                                                                                                                                                                                                                                                                                                                                                                                     The polymerase dispests the probe
                                                                                                                                                                                                                                      of the reporter molecule. The probe exists in at least one single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Larget sequences detections bybridisation platforms capture probes
signal generation systems biological Unids forensic samples
                                                                                                                                                                                                                                                                                   molecule quenches the fluorescence of the reporter molecule. The exists in at least one conformation when hybridised to the target
                                                                                                                                                                                                                                                            stranded (ss) conformation when unhybridised where the quencher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 betecting several nucleic acid targets by hybridisation to
immobilised, labelled probes—uses same labelling system torassays, e.g. in diagnosis or torensic studies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      74.0%; Secret 14.8; DB-17; Length 26; BB-10%; Prod; No. 5.8c-03; Indels cive 0; Mismatches 2; Indels c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   apture probed for a portion of the Human beta actin agne.
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                                                                                                                                                                                                                                                                                                                                                                                                          hybridised to the target sequence.
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Example: Page 22; 61pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          of nucleic acid amplification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAT93058 standard; DNA; 26 BP.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WOS741256 AZ.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DE MAY 1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    molecule.
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                                                 platform which has at least 2 capture probes (AAT93058-59) immobilised in a defined pattern. Each of the capture probes has a distinctive sequence, and is labelled with at least one member of a signal-qenerating system. Hybridisation of any target sequence to the probes at a particular site results in a detectable change in the signal from that site. The method is used to detect nucleic acids in biological fluids or in torensic
3. terminal thiol coupler, polyethylene oxide spacer, Iluorescein
sequence, or a 7-pyrene uncleoside phosphoramide. The probes are used
to exemplify the method of the invention. The method, which detects
several target sequences, comprises applying a sample to a hybridisation.
                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                Probe: Ilmorescent label: acceptor fluorophore;
fluorescent: donor fluorophore; Cy5, Cy5, 5; light excitation;
fluorescence energy transfer pair; detection; heteroxygosity;
fluorescence energy transfer pair; detection; heteroxygosity;
factor V Leiden; mutation; amplification; concentration; ss.
                                                                                                                                                                                             Score 14.8; DB 18; Length 26;
                                                                                                                                                                                                                         Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /note- "attached by an amino-linker arm"
                                                                                                                                                                                                                        7
                                                                                                                                                                                                          1,80+03;
                                                                                                                                                                  Sequence 25 BP; 3 A; 13 C; 4 G; 6 F; 0 other;
                                                                                                                                                                                                          Pred. No. 4.8e
); Mismatches
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Б
                                                                                                                                                                                             74.0%;
88.9%;
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                                                                                                                                                                                                                                                                                                                                                    AAV16266 standard; DNA; 26
                                                                                                                                                                                                                                                   2 AGGGGGGGATGGGGGGGG 19
                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
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                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                          Best Local Similarity
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                                                                                                                                                                                                                      16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                AAV16266;
                                                                                                                                                                                          Query Match
                                                                                                                                         samples.
                                                                                                                                                                                                                                                                                                                                       AAV16266/c
                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                        RESULT 15
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target sequence, one of the probes being labelled with an acceptor fluorophore (preferably fluoroscein) and the other with a donor fluorophore (preferably CV5 or CV5.5). Upon hybridisation the donor and acceptor fluorophores are within 25 nucleotides of one another. The sample containing the target sequence is excited with light at a wave
                                                                                                                                                  length absorbed by the donor fluorophore, and the emission from the fluorescence energy transfer pair is detected, preferably by monitoring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "FAM indicates a fluorescein molecule coupled to
                                                                                                                                                                                             differences, e.g. heteroxygosity, between nucleotides at selected loci, especially in the detection of a factor V Leiden mutation in an individual. The method can also be used to monitor amplification and determine the concentration of an amplified product or to quantity the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; actin; probe; hybridisation; amplification; reagent composition;
to be 10 fold higher. The probes are used to exemplify the method of the invention which is used to analyse a farger DNA sequence. The method comprises amplifying the target sequence by PCR in the presence of two nucleic acid probes that hybridise to adjacent regions of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "IMM indicates a tetrnathey)Thodomine molecule
coupled to the base moiety of the adjacent
thymidine"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the objaconiclectide by reacting an NHS-ester group attached to the fluorescebb's 6 carbon 6'-reminophosphate attached to the 5'-reminal deoxyadenosine of the
                                                                                                                                                                                                                                                                                                                                                                     Gales
                                                                                                                                                                               the temperature dependent fluorescence. The method is used to detect
                                                                                                                                                                                                                                                                                                                                                                     ..
                                                                                                                                                                                                                                                                                                                                   Length 26;
                                                                                                                                                                                                                                                                 initial copy number of the target sequence in the sample.
                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                     :7
                                                                                                                                                                                                                                                                                                                               Score 14.8; DB 19;
                                                                                                                                                                                                                                                                                                                                               Pred. No. 3.80:04;
0; Mismatches 2;
                                                                                                                                                                                                                                                                                                  Sequence 26 BP: 3 A: 13 C: 4 G: 6 T: 0 other;
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                                                                                                                                                                                                                                                                                                                                   74.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Σ.
                                                                                                                                                                                                                                                                                                                                                  88.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      defection; thuorophore; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5.5
                                                                                                                                                                                                                                                                                                                                                                                                  Z AGGGGGGGAGG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                 22 AGGATGGCATGGGGGGAGG 5
                                                                                                                                                                                                                                                                                                                                                                16; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAVI5428 standard; DNA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /*! au-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /label
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    34 JUN-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28 - MAY - 1998
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAV15328;
                                                                                                                                                                                                                                                                                                                               Query Match
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McBride 1.73

Litak KJ.

The present probe is a dual labeled probe (see Teatures), the potential signal from the illucrescein/Cy5 pair (AAV16.265) was compared with the signal from a fluorescein/Thodamine pair (present probe), and found

Example 4: Page 39: 217pp; English.

Analysing target DNA in presence of two fluorophore labelled probes useful for real time monitoring of polymerase chain reaction, detecting heterozygosity, determining PCR completion, etc

Rasmussen RP, Ririe KM, Wittwer CF;

WP1: 1998 042220/04.

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AASTITB4;
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    The present sequence represents a probe for human actin used in the example of the present invention. The present invention describes: (1) a readout composition comprising a nucleic acid amplification balter and an internal reference molecule (1), comprising a 1st and 2nd fluorophore and a backbone connector that does not hybridise in a sequence specific manner to a polynucleaf ide for amplification manner to a polynucleaf ide for amplification manner to a polynucleaf ide for amplification conditions, where the backbone connector joins the 2 fluorophores so as to permit energy transfer from the 1st to 2nd; and (2)
                                                                                                                                                                                                                                     measuring the amount of an amplitication product of a polynucleoride for amplification in a nucleic acid amplification reaction, comprising adding (1) to the amplification reaction. (1) can be used to quantify the formation of amplification products in nucleic acid amplification products, and monitor, in real time, the progress of a nucleic acid amplification reaction. The fluorescent reagents can queetate a stable
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ^{\rm d} "5' end is conjugated to a NIB mojety via cither an amino group or a phosphate group"
                                                                                                                                                                                                                                                                                                                     Thoreseent signal proportional to the amount of amplification product, which is independent of variations in the volume of the reaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             saro to
                                        Readent composition for detection of nucleic acid amplification products—includes internal reference malecule comprising 1st and
                                                                                                                                                                                                                                                                                                                                                mixture. The level of fluorescent signal from (1) remains constant throughout a fluorescer-quencher probe assay. (1) allows multiple fluorescer-quencher probes to be used in a single amplification
                                                                    2nd illuorophores joined by oligonnelectide backbone connector
                                                                                                                                                                                                                                                                                                                                                                                                                                                74.0%; Score 14.8; DB 19; Length 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Inde s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                801 official officerides phosphoramidate official entirestates about official entire solides appoints ss.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred, No. 3. Recust.
U: Mismatches 23
                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualitiers
                                                                                               Example: Page 17; 44pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAA90480 standard; DNA; 26 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Labertled Sal ortigonneleortide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18 FEB 2000; 2000Mo US04214.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TO JAN 2001 (Tirst entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      16; Conservative
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              WP1; 1998 042214/04.
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                                                                                                                                                                                                                                                                                                                                                                                          reaction.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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a 5' phosphoramidite, 4' protected nucleoside and an activator to form a bond between the labelled solid support and the nucleoside. The method is used to rapidly and economically synthesise labelled oligomacleolides on solid supports under conditions which are compatible with chemically labile functionality. The present sequence represents an oligomacleolide synthesised in an exemplification according to the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a novel method of synthesising labelled obligonucleotides. The method comprises reacting a labelled solid support
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     with acid to remove the acid eleavable protecting group and then adding
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Pred. No. 4.8e+03;
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/wdo "khodamine labeled"
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                                                                                                                      Mullah KB,
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(PEKE ) PERKIN ELMER CORP.
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                                                                                                                      Vinayak RS, Loe Ld.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15 MAY 2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                      STREETER
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                                                                                                                                                          for AP at selected temperature and reaction conditions by monitoring rate of hybridisation of known concentration of AP, determining rate of annealing for an unknown concentration of AP and calculating AP
                                                                                                  The invention relates to a method for determining the concentration of an
                                                                                                                                                                                                      concentration from rate of annealing and second order rate constant. The
             determining rate constant for known concentrations of product, rate of annealing of unknown concentrations of product and quantitying from the
                                                                                                             amplified product (AP) in a selected PCR (polymerase chain reaction) mixture. Determining concentration of an amplified product (AP) in a selected PCR mixture, comprises determining second order rate constant
                                                                                                                                                                                                               method is useful for determining the concentration of a nucleic acid
product amplified by PCR. The present sequence represents the human
beta alobin internal probe #7 used in an example which demonstrates
                                                                                                                                                                                                                                                                                                                                                     0; Gaps
Quantitication of amplified product in polymerase chain reaction by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "rhodamine label attached by a linker arm"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   thus escence resonance energy transfer pair; fluorescein; Cy5;
                                                                                                                                                                                                                                                                                                                      Score 14.8; DB 22; Length 26; Pred. No. 3.80003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /mod_base oTHER
/note "'' Chemical phosphorylation agent"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human: beta-globin; PCR primer; detection; hybridisation;
                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                          Sequence 26 BP: 3 A: 13 C: 4 G: 6 E: 0 other;
                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "fluorescein lahel"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human beta-globin fragment PCR probe 7.
                                                                     Example 4; Column 28; 87pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualitiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER
                                                                                                                                                                                                                                                                                                                                                   : 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAH45994 Standard; DNA; 26 BP.
                                                                                                                                                                                                                                                             the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      97US 0869276.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9603-0658994.
                                                                                                                                                                                                                                                                                                                      74.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360S-038629.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9708-0818267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (01AH ) UNIV UTAH RES FOUND.
                                                                                                                                                                                                                                                                                                                                      88.98
                                                                                                                                                                                                                                                                                                                                                                              2 AGGGGGGCATGGGGGGGG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11 SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ۵
                                                                                                                                                                                                                                                                                                                                                                                               probe: quantification; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mod_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mod_base
                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /notes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /*tad
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /note
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /*Tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /*tag
                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 16; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  modified_base
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Home sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          17 SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04 JUN-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                USE215514_B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1966 I - NIII.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17 MAR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12 JEN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH45993;
                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH45991/0
                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 20
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it is taking place, i.e., during or immediately after temperature eyeling
                                                                                                                                                                                                                                                                                                                                                                                            useful to the invention. The invention relates to Hubrescence resonance energy transfer pairs for detecting the presence of a target analyte. The probe labelled with thursteen and a second probe labelled with (%5 or 6%5.5. In the presence of the target analyte, the probes are positioned so that the fluorescenic and 6%5 or 6%5.5 are in a fluorescence resonance energy transfer relationship. The fluorescence cenergy transfer pair is useful for observing hybridisation
                                                                                                                                                                                                                                                                                                                                                                       The present sequence is that of a PCR probe for the human beta-globulin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      afteration detection and quantification. The present method allows monitoring of hybridisation during PCR and analysing the reaction while
                                                                                                                                New Fluorescence energy transfer pair with first and second probes labelled with fluorescein and Cy5 or Cy5.5, respectively, useful for detecting target analyte and for confinuous fluorescence monitoring of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  with thorescence during and/or immediately after ECR. Thus, the tropescence resonance energy transfer pair is useful for continuous thorescence monitoring of DNA amplification. The information obtained from these observations is useful for product identification, sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        rapid thermal cycling; fluorescence resonance energy transfer; MIHFR; quantifation; melting; reannealing; hepatitis B smrface antique; meltylenetetrahydrololate reductase; prostate specific antiqen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; beta-alobin; sybridisation; probe; PCR primer; fluorescence;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Monitoring hybridization or amplification of DNA during pelymerase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mal-labeled fluores-cin/Rhodamine probe SEQ ID Net20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 22;
Pred, No. 3.8e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 26 BF; 4 A; 13 C; 4 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wittwer Cl. Rille KM, Rasmussen RP;
                                                                                                                                                                                                                                                                                                 Example 4: Column 27: 87pp: English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           without manipulation of the sample.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                E G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          amplification; detection; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         74,0%;
88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97US 0869276.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0.658993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9705-0818267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAF69150 standard; DNA; 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 AGGGGGGCATGGGGAGG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24 APR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22 AGGATGGCATGGGGGAGG 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity 88.9
os 16, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     96138
                                                              WPI; 2001-416909/44.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPT: 2001-217674/22
                                                                                                                                                                                                                               DNA ampiitication
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19661-NIII-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17 - MAR - 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-JAN-2001.
Wittwel CI:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetie.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF59150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAP59150/C

AAP59170/C

AAP591

AAP591

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AAAB591

AAAB591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matehos
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                biological sample, detecting a difference at a selected lowus in a first nucleic acid sequence of a biological sample, detecting a difference at a selected lowus in a first nucleic acid as compared to a sevenal nucleic acid, detecting the recognisity at a selected lowus in the genome of an individual (where the genome comprises a mutant aliele and a corresponding reference allele, each comprising the selected lowus), determining completion of a PCK in a PCK in a PCK mixture, determining a concentration of a selected
                                                                                                                                                                                                                                         The present invention describes a method for monitoring hybridisation or amplification of DNA during polymerase chain reactions (PFK) comprising employing DNA dyes or specific hybridisation probes and observating thousevence signals from a fluorescence energy transfer pair resulting from the hybridisation or amplification. The method can be used for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antiallergic; allergic disease; carboxypeptidase M; cathepsin C; CYFTRL; endoserine A receptor; osteoblast-specific factor 2; DD96; acne therapy; bronchial asthma; PCR; primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                 analysing a rarget DNA sequence of a biological sample, real time monitoring of a PCR amplification of a rarget nucleic acid sequence in a biological sample, amplifying a target nucleic acid sequence in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               amplification of a selected template in a PCR that also comprises a positive control template, or quantitating an initial copy number of a sample containing an unknown amount of nucleic acid. Monitoring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 products, detecting sequence afteration, or automatically controlling
the temperature cycling parameters by Thorescence teachack. AAF5919
chain reactions, compaises using DNA dyes or specific hybridization probes, and observing thus escence signals from a fluorescence energy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sdep (a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hybridisation during 1938 is useful for identifying and quantifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Allergic disease examining method related PCR primer SEG 1D No 22.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nurleic arid template by competitive quantitative PCR, monitoring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 26;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  to AAF59157 represent oligonarieotide sequences used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               lnde ls
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 14.8; DR 22;
Fred, No. 4.80+03;
O; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 26 BP; 3 A; 13 C; 4 G; 6 1; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        exemplification of the present invention.
                                                                                                                                                                 Example 4; Polumn 27; 95pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAL 99852 standard; DNA; 26 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21 DEC-2001; 2001Wo JP11287.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          74.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26 DEC 2000; 2000JP 0396166.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-SEP-2002 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GENO ) GENOX RES INC.
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AALA985270
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Examining affergic diseases by changes in expression levels of six

WPT: 2002 500764/54.

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The invention relates to a novel method for examining affergic diseases, comprising determining the expression level of a gene selected from carboxypeptidase M. cathepsin C. endoserine A receptor, ostrodiast specific factor 2, 1006 and CYBHE in the biological sample from a patient, and comparing the expression level with that in the sample of a bealthy individual. The polynucleotides of the invention can be used to
alletay associated genes inducible by stimulation e.g. of arrway epithedia cells with interleukin 4 or 13, also applicable in sereoning compounds
                                                                                                                                                                                                                                 treat disorders by gene therapy. The method is useful for examining affected diseases particularly broughful asthma and its diagnosis, which is also applicable in screening candidate compounds for remodies. Thus
                                                                                                                                                                                                                                                                                                                                                                                                                  S. [1:3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Allergic disease, affergy, autiallergie; intersectin Z; eosinophil);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Method for examining allergie diseases by differential display of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     THE CHIEF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Allergic disease examination method related probe SEQ ID No: 11.
                                                                                                                                                                                                                                                                                        polynucleofide sequence represents a PCR primer relating to the
                                                                                                                                                                                                                                                                                                                                                                                                                  ;;
                                                                                                                                                                                                                                                                                                                                                                              Length 26;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Znote "modified by 6 carboxy nanalistical tetramethylabodamine"
                                                                                                                                                                                                                                                                                                                                                                            DB 24;
                                                                                                                                                                                                                                                                                                                                                                            Score 14.8; DB 24;
Pred. No. 3.86+03;
U; Mismatches 2;
                                                                                                                                                                                                                                                                                                                                        Sequence 26 BP; 3 A; 13 C; 4 G; 6 T; 0 other;
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                                                                                        Example 27 Pages
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                                                                                                                                                                                                                                                                                                         invention.
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                                                                     The present invention relates to a method for examining alleraic diseases with intersectin 2 as an indicator gene, which comprises determining the expression level of the gene in the eosinophils in a patient, and comparing the expression level with that in the eosinophils of a healthy individual. The method is for examining alleraic diseases, particularly alophicametries which is also applicable in screening candidate compounds for remedies. The present sequence is a probe described in the exemplification of the
                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Detecting early stage allergic diseases with markers of 7 genes of GM CSF Rebeta, GM-CSF Realpha, 16.3 Realpha, 16.3 ealpha, 16.4 bel-2, bel-2, bel-x and CD44 in ecsinophils.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; detection of early stage allergic disease; atopic dermatitis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (6-carboxy-N,N',N' tetramethylrhodamine)"
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C
intersectin 2 dene showing different expression particularly significant increase in eosinophils in patients
                                                                                                                                                                                                                                                     Score 14.8; DB 24; Length 26;
Fred. No. 3.8++03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Fluorescent probe for DNA encoding human beta-actin.
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                                                                                                                                                                                                                                                                                    0; Mismatches
                                           Disclosure; Page 58; 90pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GEN)-) GENOX SOVAKU KENKYUSHO KK. (KOKU)-) KOKUKIISU SHONI BYOIN INCHO.
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                                                                                                                                                                                                                                                      74.08;
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Matches 16; Conservative
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                                                                                                                                                                                          invention.
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ABK52496/c
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comprises determining the expression levels of granulocyfc mucrophage colony stimulating factor receptor alpha or beta (GM-GSF R-alpha or beta), interleuk.n 3 receptor alpha (IL-3 R-alpha), bel-2,
                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Examining allergosis, involves measuring the expression levels of a specific gene, and comparing it to the levels in the cosinophils of healthy centrol.
                                                                                                                                 bel-x, platelet activation factor receptor (PAF R) or CD44 in eosimocytes of a subject to be tested. The method further comprises comparison with expression levels in healthy volunteers. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The specification describes a method for examining allergosis. The encload-comparison measuring the expression level of the gene given in ANLSOGA, and comparing it with the expression level of the general in the cosinophils of a healthy person. The method is used for the
                                                The present invention relates to a method for detecting early stage
                                                                                                                                                                                    is useful for the early diagnosis and treatment of early stade allorque diseases such as atopic defmatitis. The present sequence represents a probe for DNA encoding beta actin (used as a control) in the methods of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "6-carboxy-N,N,N',N'-fetramethylrhodamine
attached"
                                                                allergic diseases, particularly atopic dermatitis. The method
                                                                                                                                                                                                                                                                                                         74.0%; Score 14.8; DB 24; Length 25; 88.9%; Pred. No. 3.8e.03; ive 0; Mismatches 2; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "6-carboxy-fluorescein attached"
                                                                                                                                                                                                                                                                          Sequence 26 RP: 3 A: 13 C: 4 G: 6 T: 0 other:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; allergosis; essinophil; primer; ss.
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              Example 1: Page 12: 25pp: Japanese.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GENO-) GENOX SOYAKU KENKYUSHO KK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nucleotide sequence of a primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABL59047 standard; DNA; 26 BP
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ABL590477c
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CC examination of allerquasis, the present sequence represents a CC primer, which is used in the course of the invention.

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Sequence 26 BP; 4 A; 13 C; 4 G; 6 L; 0 other;
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:` = Oberty Match

74.0%; Score 14.8; DB-24; Loudth 26;
Bost Local Similarity 88.9%; Pred. No. 3.80:03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps

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Search completed: March 18, 2003, 11:01:29 Job time: 115.82 sees

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GenCore version 5.1.4_p5_4578 copyright (c) 1993 - 2004 computer Lid.
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nucleic search, using sw model ow nucleic March 18, 2003, 10:54:46 ; Search time 28.1967 Seconds (without alignments) 217.527 Million cell updates/sec Run on:

08-09-900-115-1 20 Il dadqeeqeat adaqaaque 20 Title: Perfect score: Sequence:

IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

441362 seqs, 153338381 residues Searched:

50°9818 fotal number of hits satisfying chosen parameters:

Minimum 19 seq length: 0 Maximum 18 seq length: 50

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 1000 summaries

Database

/cqn2_6/ptodata/l/ina/5A_tOMB.seq:* /cqn2_6/ptodata/l/ina/5H_tOMB.seq:* /cqn2_6/ptodata/l/ina/6A_tOMB.seq:* /cqn2_6/ptodata/l/ina/6H_tOMB.seq:* /cqn2_6/ptodata/l/ina/PtTUS_COMB.seq:* /cqn2_6/ptodata/l/ina/buckfiles1.seq:* Issued_Patents_NA:*

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7	17	85.0	2.1	4	US-09-287-623-1	
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. 12	15.2	76.0	4.4	-	US-08-445-050-15	15,
٠ ا	15.2	76.0	* \$	-	US-08-204-691-15	15,
c 14	1. 1.3	74.0	56	,	US-08-440-558-9	4 '6
51 0	α. 1	74.0	56	-	08-08-710-075-1	Sequence 1, Appli
ر. 16	14. 3	74.0	56	_	US-08-559-405-9	Ξ,
c 17	æ. **	74.0	9.7		US-08-657-989-3	Sequence 4, Appli
د 18	8.41	74.0	7,5	~1	US-08-558-303-9	Sequence 9, Appli
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6. 94. 0. 45. 2. US ON 475-228A-124 6. 94. 0. 45. 4 US-09-45-228A-124 6. 94. 0. 45. 4 US-09-45-228A-124 6. 94. 0. 45. 4 US-09-45-45-49-124 6. 96. 0. 10. 0. 0. 17-49-114 6. 96. 0. 10. 0. 0. 17-49-114 6. 96. 0. 10. 0. 0. 17-49-114 6. 96. 0. 10. 0. 0. 17-49-114 6. 96. 0. 10. 0. 0. 12-24-01-114 6. 96. 0. 10. 0. 0. 12-24-01-114 6. 96. 0. 10. 0. 0. 12-24-01-114 6. 96. 0. 10. 0. 0. 12-24-01-114 6. 96. 0. 10. 0. 0. 12-24-01-114 6. 96. 0. 10. 0. 0. 12-24-01-114 6. 97. 0. 10. 0. 0. 0. 12-24-01-114 6. 97. 0. 10. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	2. 56. 0. 2.0. 4. 08: 09: 481-72. Sequence: 19. A. 56. 0. 2.0. 4. 08: 09: 481-520. 19. Sequence: 19. A. 56. 0. 2.0. 4. 08: 09: 481-520. 19. Sequence: 19. A. 56. 0. 2.0. 4. 08: 09: 577-4678. 219. Sequence: 219. A. 578-751-2. Sequence: 219. A. 578-751-2. Sequence: 219. 0. 210. 0. 08: 542-751-6. Sequence: 219. 0. 210. 0. 08: 542-751-6. Sequence: 219. 0. 210. 0. 08: 542-751-6. Sequence: 4. A. 56. 0. 241. 0. 08: 08: 281-082A-11. Sequence: 41, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 41, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 18, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 14, A. 56. 0. 241. 0. 08: 08: 477-852. 18. Sequence: 145. 0. 241.
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05-09-27; 465-17 08-09-604-014A-17 08-09-604-014A-17 08-09-604-014A-17 08-09-604-014A-14 08-09-604-014A-14 08-09-604-014A-14 08-09-604-014A-14 08-09-604-014A-14 08-09-641-64-18-18-18 08-09-641-64-18-18 08-09-641-64-18-18-18 08-09-641-64-18-18-18 08-09-641-64-18-18-18 08-09-641-64-18-18-18 08-09-641-64-64-18-18 08-09-757-024-73 08-08-757-024-63 08	08-08-319-545A 4 Sequence 3, Agree 198-8-319-545A 4 Sequence 1, Agree 198-99-648-1 Sequence 1, Agree 198-99-648-1 Sequence 2, Agree 198-99-92-948-4 Sequence 3, Agree 198-94-99-94-4 Sequence 3, Agree 198-94-99-94-4 Sequence 442-1 Sequence 442-1 Sequence 442-1 Sequence 15, Agree 198-25-92-546-1 Sequence 15, Agree 198-25-92-548-1 Sequence 15, Agree 198-25-92-548-1 Sequence 10, Agree 198-91-844-4 Sequence 3, Agree 198-91-844-4 Sequence 4, Agree 198-91-844-4 Sequence 4, Agree 198-91-844-4 Sequence 4, Agree 198-91-844-4 Sequenc
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4 0S-09-27] 465-17 Sequence 1 0S-09-27] 465-17 Sequence 2 0S-08-499 44-13 Sequence 2 0S-08-99-44-13 Sequence 3 0S-08-56-147-31 Sequence 2 0S-08-99-44-34 Sequence 3 0S-08-56-147-31 Sequence 3 0S-08-96-147-31 Sequence 3 0S-08-96-147-31 Sequence 3 0S-08-96-147-31 Sequence 3 0S-08-96-147-31 Sequence 4 0S-09-641-648-680 Sequence 4 0S-09-641-648-680 Sequence 3 0S-08-96-147-31 Sequence 3 0S-08-96-147-31 Sequence 4 0S-09-641-648-680 Sequence 4 0S-09-651-65-71 Sequence 5 0S-08-98-944-22 Sequence 5 0S-08-98-944-22 Sequence 5 0S-08-98-944-12 Sequence 5 0S-08-98-944-12 Sequence 5 0S-08-98-944-12 Sequence 6 0S-09-271-465-15 Sequence 6 0S-09-98-944-12 Sequence 7 0S-09-98-944-12 Sequence 6 0S-09-98-94-13-12 Sequence 6 0S-09-98-94-13-12 Sequence 6 0S-09-98-94-13-12 Sequence 6 0S-08-98-98-94-12 Sequence 6 0S-08-98-98-94-12 Sequence 6 0S-08-98-98-98-98-98-98-98-98-98-98-98-98-98	55.0 21 1 0S-08-319-545A-4 Sequence 3, Agricology 55.0 21 2 US-08-319-545A-4 Sequence 7, Agricology 55.0 21 2 US-08-909-648-1 Sequence 1, Agricology 55.0 21 2 US-08-909-848-1 Sequence 2, Agricology 55.0 21 3 US-08-757-024-464 Sequence 3, Agricology 55.0 21 3 US-08-757-024-464 Sequence 464, Agricology 55.0 22 3 US-08-757-024-464 Sequence 15, Agricology 55.0 24 3 US-08-757-024-460 Sequence 15, Agricology 55.0 24 3 US-08-757-024-460 Sequence 15, Agricology 55.0 24 3 US-08-757-024-444 Sequence 7, Agricology 55.0 24 3 US-08-757-024-444 Sequence 10, Agricology 55.0 25 3 US-08-757-024-444 Sequence 10, Agricology 55.0 25 3 US-08-757-024-444 Sequence 10, Agricology 55.0 25 3 US-08-757-024-444 Sequence 11, Agricology 55.0 25 3 US-08-757-024-444 Sequence 24, Agricology 56.0 25 3 US-08-911-844-24 Sequence 24, Agricology 57.0 25 3 US-08-911-844-24 Sequence 24, Agricology 57.0 26 3 US-08-911-844-24 Sequence 24, Agricology 57.0 26 3 US-08-10-446-40 Sequence 24, Agricology 57.0 26 3 US-08-911-844-24 Sequence 24, Agricology 57.0 27 28 20

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Sequence 291, App
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Sequence 23, Appl
                 Sequence 14, Appl
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APPLICANT: Kaneda, Ysasutumi
TITLE OF INVENTION: METHOD FOR IN VIVO DELIVERY OF
TITLE OF INVENTION: THERAPEULIC AGENIS VIA LIPOSOMES
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: FIREHE, BOHRACH, TEST, ALARLITON & HERBERT
STREET: 4 Embarcadero Center, Suite 9400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patentin Release #1.0, Version #1.25
US-09-284-782-6
US-09-284-782-14
US-08-123-946-291
US-08-123-946-291
US-08-45-228A-291
US-09-454-947-291
US-09-454-947-291
US-09-454-947-291
US-09-454-947-291
US-09-454-947-291
US-09-454-947-291
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US-09-454-947-291
US-09-454-947-391
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US-08-173-494-574
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US-08-482-080A-573
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RECISTRATION UNMERS. 20,015
REFERENCE/OFFET NUMBER: A 59079-1/BTR
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                           AL LONMENTS
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 7, Application US/UM241372
Patent No. 5631237
GENERAL INFORMATION:
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COMMOTER: HM PC COMpatible
OPERATING SYSTEM: PC-DOS/MS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NE: (415) 781-1989
: (415) 398-3249
910 277299
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: single
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SIAFE: California
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                                                                                                                                                                                                                                                                      TITLE OF INVENTION: Inhibition of Proliferation of Vascular
TITLE OF INVENTION: Smooth Musche Cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Dean, Victor J
TITLE OF INVENTION: Inhibition of Proliferation of Vascular
FITLE OF INVENTION: Smooth Muscle Cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 20; DB 1; Length 24; 100.0%; Pred, No. 5.2;
                    Indels
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OPERATION SYSTEM: PC DOS/MS DOS
SOFTWARE: Patroiln Release #1.0, Version #1.29
CURRENT APPLICATION FATA:
100.0%; Pred. No. 5.2;
                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Allegrefti & Witcoff, Ltd.
STREET: 10 South Wacker Dr.
CITY: Chicago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/110,294A FILLING DATE: 20 Aug 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 07/944,882
FILLING DATE: TO SEP 1992
ALLORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             94,510 B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 08/063,980
                                                                                                                                                                                          Sequence 1, Application US/08110294A
Patent No. 5821234
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TELECOMMINICALION INFORMATION:
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                                                                                            20 GAGGGGGGATGGGGGGAGGC 1
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PRIOR APPLICATION DATA:
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TELEPAX: 312-715-1234
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Matches 20; conservative
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                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 4:
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: nucleic acid
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MOLECHLE TYPE: mENA
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STATE: 11.
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100.0%; Score 20; DB 1; Laugth 24;

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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APELICANT: Dead, Victor J
APELICANT: Kaneda, Washing
TILLE OF INVENTION: METHOD FOR IN VIVO DELIVERY OF
TILLE OF INVENTION: THERAPEUTIC AGENTS VIA LIPOSOMES
                                                                                                                                                                                                                                     Seriwake: Patentin Release #1.0, Version #1.25
CURRENI APPLICATION DATA:
APPLICATION UNMHER: US/08/389,926
FILING DATE: 16 FEB 1995
CLASSIFICATION: 514
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                  ADDRESSEE: Banner & Allegretti, Ltd. SIREET: 10 South Wacker for.
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APPLICATION NUMBER: PCT/IS95/00420
FILMO DATE: 28 APPLI 1995
CLASSIFICATION:
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FILING DATE: 10-SEP-1992
ATFORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: IIS 08/063,980
FILING DATE: 19-MAY-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE/DOCKET NUMBER: 93,510-D
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NAMEWIER: IHM PU compatible
PERALING SYSIEM: PC-LOS/MS-DOS
                                                                                                                                                                     MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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GENERAL INFORMATION:
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STRANDEDNESS: single
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CHARLEST NURNUE ADDRESS:
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Best Local Similarity
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                                                                                                        CHINTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3.5" Diskette, 1.44 Mb storage
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               NAME: Fowland, Bertram 1
KESISIRALI'AN NUMBER: 20,015
KEBEREN'EZION'KET NUMBER: FF-59079-E/HIR
IELEN'OMMUNI'AFION INFORMATION:
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APPLICATION NUMBER: PCIZIS94Z06441A
FILLING LATE: June 2, 1994
CLASSIFFCATION:
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611 West Sixth Street
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                                                                                          TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
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ALL: RNEY/AGENT TNFORMATION:
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67-3510
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LENGTH: 24 base pairs
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PRIOR APPLICATION DATA:
PRIOR APPLICATION DAIA:
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STRANDFDNESS: single
                                                                                                                                                                                                        TYPE: nucleic acid
SIRANDINESS: single
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CORRESPONDENCE ADDRESS:
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CITY: Los Angeles
STATE: California
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FILING DAIE:
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Molecule TYPE: CDNA
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Rest Local Similarity
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ZIP: 90017
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APPLICANT: KLEIN, Antoinette
APPLICANT: HAZZELLD, Jacques
TITIAE OF INVENTION: Workhold for Gene Danster Into Cells Activated from a
TITIE OF INVENTION: Quiescent State
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: Method for Gene Transfer Into Cells Activated from a TITLE OF INVENTION: Quiescent State
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                           Indels
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    Pred. No. 34;
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live 0; Mismatches
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                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT FILING DATE: 1998-07-10
EARLIER APPLICATION NUMBER: FR-94/15497
EARLIER FILING DATE: 1994-12-22
EARLIER APPLICATION NUMBER: PCT/FR95/01691
EARLIER FILING DATE: 1995-12-18
NUMBER OF SEQ-10-NOS: 1
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EARLIER APPLICATION NUMBER: PCT/FR95/01691
EARLIER FILING DATE: 1995-12-18
NUMBER OF SEQ ID NOS: 1
                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/08/860,299
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Patent No. 5958774
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Patent No. 6225044
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100.0%;
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APPLICANT: HATZFELD, Jacques
                                                               3 GGGGGGATGGGGAGGC 20
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18 GOGGGGATGGGGGAGGC 1
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                      18; Conservative
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Matches 17; Conserve
  Best Local Similarity
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85,0%; Pred; No. 4,2e+0.;
ive 0; Mismatches 5; Indels;
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TITLE OF INVENTION: No. 5763739el Polypoptides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRALION NUMBER: 35,472
REFERENCE/DOCKET NUMBER: 1103426-850
                                                                                                                                                                                                                                                                                                                                                      ADDRESSEE: White a case
STREET: 1155 Agenne of the Americas
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          UMBER: SE 9400722.7
04 MAE 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SE 9300686 4
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REGISTERATION NUMBER: 35, 372
                                                                                              Sequence 19, Application US/08445050
Parent No. 5763739
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; Sequence 19, Application US/08204691
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APPLICANI: Hermell, other
APPLICANI: Lundahera, Lemari
APPLICANI: Streemprist, Mars
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Edlund, Michael
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5 CARBOTABLATORESISTA 21
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SIKANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                  NUMBER OF SECUENCES:
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APPELCANT: BLACCK
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                                                                                                                                                                                                                                                                                                                                                                                             CITY: New York
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RESULT 11
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/204,691
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                                                                                                                                   5827683el Polypeptides
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REGISTALION NUMBER: 35,372
REFERENCE/DACKET NUMBER: 1103426-850
TELEP MAMONICATION INFORMATION:
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FILING DATE: 01-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE 9300722-7
FILING DATE: 04-MAR-1993
                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSIEM: PC-DOS/MS-DOS
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Patent No. 5763739
                                                  APPLITANT: Hernell, olle
APPLITANT: Lundberg, Lennart
APPLICANT: Strempylst, Mats
APPLICANT: Toernell, Jan
TITLE OF INVENTON: NO. 582768
NUMHER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
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Stroemgvist, Mats
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Edlund, Michael
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Hernell, Olle
Blaeckberg, Lars
Edlund, Michael
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Hernell, olle
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(212)354-8113
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ZIP: 10036-2787
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Rest Local Similarity 85.0
Matches 17; Conservative
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APPLICANT: Blacck
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OFERATING SYSTEM: PC-LOGS/MS-DOS
SPETMARE: Patentin Release #1.0, Version #1.25
CURRENI APPLICATION DAIA:
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FEALENATION NOWHER: 5,372
REFERENCE/DECKET NUMBER: 1103526 850
TELECOMMUNICATION INFORMATION:
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APPLICATION NUMBER: US/08/445,050
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PRIOR APPLICATION DAIA:
APPLICATION NUMBER: US/08/204,691
                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: SE 9300686-4
FILLING DATE: 01-MAR-1993
PRIOR APPLICATION DATA:
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                                                                                                MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC YOMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
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: Sequence 14, Application US/08204691
; Patent No. 5827683
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MoLEGULE TYPE: DNA (qenomic)
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APPLICANT: Lindberg, Lennart.
APPLICANT: Stroemptist, Mats
APPLICANT: Toernell, Jan
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APPLICANI: Historkborg, Lars
APPLICANI: Edland, Michael
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FILING DATE: 04-MAR-1993
ATTORNEY/ASENT INFORMATION:
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TITLE OF INVENTION: NO. 5
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                                   United States
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Matches 17; Conserva
                                                      10036-2787
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                     New York
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CITY: New York
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                                                                                                                                                           SOFTWARE:
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                  STATE
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Polyalizable
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              76.0%; Score 15.2; DB 1; Length 42;
85.0%; Pred, No. 4.1co.02;
live 0; Mismatches 3; Indels
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FENTION: No. 576373901 Polypeptides
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APPLICATION NUMBER: US/08/204,691
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                                                                                   APPLICATION NUMBER: SE 9 (006.86 4 FILLING DATE: 01 MAR 1993 PRIOR APPLICATION DATA:
                                                                                                                                                  APPLICATION NUMBER: SE 9300722-7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: SE 9400686 4
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                                                                                                                                                                  FILLING DATE: 04 MAR-1994
ALTORNEY/ATENI INFORMATION:
NAME: STOTHOT Ph.D., Richard J.
REGISTRATION NUMBER: 45, 472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15, Application US/08445050
Patent No. 5763739
                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 11 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ToPoLGCTY: Linear
MoLECULE TYPE: DNA (qenomic)
                                                                                                                                                                                                                                                                                                 FELEPHONE: (212)819-8783
LELEFAX: (212)854-8113
LINDORMATTON FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
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APPLICANT: Edland, Michael
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PRIOR APPLICATION DATA:
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Matches 17; Conservative
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ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 42 base pairs
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COMPUTER READABLE FORM:
                                                             PRIOR APPLICATION DAIA:
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CORRESPONDENCE ADDRESS:
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                                        CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid
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                      FILLING DATE:
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Treetown No. 5827683cl Polypeptides
              REPERENCE/FORKET NUMBER: 45, 422
REPERENCE/FORKET NUMBER: 1103426 B50
ELECT MANUALTON INFERMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KEGTSTRATTON NUMBER: 35,372
KEFERENCEZPOCKET NUMBER: 1103326 BSO
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08/204,691
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APPLICATION NUMBER: SE 9300586-4
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NAME: Sterner Prob., Richard J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sterner Ph.D., Richard J.
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APPLICANT: Loginell, Jan
                                                                                                                       INFORMATION FOR SEQ ID NOT 15: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                           MOLECULE TYPE: DNA (qenomic)
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APPLICANT: Edinnd, Michael
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APPLICANI: Hermell, elle
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PRIOR APPLICATION DATA:
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                                                                            (212)819 B783
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                                                                                                   1ELEFAX: (212) 454 8114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (212) 454 H114
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                                                                                                                                                             LENGTH: 4 Chase pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LENGTH: 44 base pairs
IYPE: mucleic acid
STRANDEDNESS: single
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                                                                                                                                                                                                                               Linear
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                                                                              TELEPHYNE:
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FILING DATE: 16-NOV-94 ATIORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                      Paul D. Grossman
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Matches 15, Conservative
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PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                     CLASSIFICATION: 435
PRIOR APPLICATION DATA:
                                                                                                  COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid
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STAFE: California
                        CITY: Foster City
                                        STATE: California
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ZIP: 94025-6935
                                                              USA
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                                                              COUNTRY:
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                                                                                                                                                                                                                                                                                                                       APPLICANT: Kenneth J. Livak, Susan J.A. Flood, Jeffery Marmaro
LITLE OF INVENTION: Fluorescent probe for use in nucleic acid amplification assays
CORRESPONDENCE ADDRESS:
AUDRESSEE: Stephen C. Macevicz, Porkin-Elmer Corp., Applied Biosystems Division
STREET: 850 Lincoln Centre Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Biosystems Div
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                                                        76.0%; Score 15.2; DB 1; Length 43; 85.0%; Pred. No. 4.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 14.8; DB 1; Length 26;
Pred. No. 6.le+02;
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TILE OF INVENTION: Methods and readents for combined PCR NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
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                                                                                                3; Indels
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SUFWARE: Microsoft Word for Windows, vers. 2.0
SOFTWARE: Microsoft Word for Windows, vers. 2.0
APPLICATION NUMBER: US/08/340,558
FILING DATE: 16-NOY-94
                                                                                              0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM;
MEDIUM TYPE: 3.5 inch diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Stephen C. Macevicz
REGISTRATION UNBERE: 30,285
REFERENCE/ZOCKET UNBERE: 4264
FELENDAMONICATION (NEORMATION):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1, Application US/08710075
Patent No. 5691146
                                                                                                                                                                                                                                                                       Sequence 9, Application US/08340558
Patent No. 5538848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: (415) 638-5552
FELEFAX: (415) 638-6071
INFORMATION FOR SEQ ID NO: 9:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           74.0%;
88.9%;
MolEntil TYPE: DNA (genomic)
                                                                                                                                    1 GAGGGGGGCATGGGGGGGGGC 20
                                                                                                                                                          20 GTGGGGGCACOGGGGGGGC ]
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Matches 16; Conservative
                                                                                              17; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
SIRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 435
PRICE APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Foster City
STATE: California
                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ToPoLoGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          94404
                                                                                                                                                                                                                                 RESULT 14
US-08: 340-558-970
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US-08-710-075-17C
                  US:08 204:691-15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-08-340-558-9
                                                          Query Match
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Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Perkin-Finer Corporation,
APPLICANT: Applied Blosystems Division
TILLE OF INVENTION: SELF-GUENCHING FLUCKESCENCE PROBE
TILLE OF INVENTION: AND METHOD
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                SOFTWARE: Microsoft Word for Windows, vers. 6.0C CURRENT APPLICATION DAIA:
APPLICATION NUMBER: US/08/710,075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Microsoft Windows 3.1/Dos 5.0
                                                                                                                                                        MEDIUM TYPE: 3.5 inch diskette
COMPUTER: 1BM compatible
OPERATING SYSTEM: Windows 3.10/DOS 6.20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADDRESSEE: David J. Weitz,
ADDRESSEE: Haynes & Davis
STREET: 2180 Sand Hill Road, Suite 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: Mordpertect for windows 6.0, SOFTWARE: ASCII (DOS) TEXT format CURRENI APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/559,405
850 Lincoln Centre Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE/DOCKET NUMBER: 4273D1 TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3.5 inch diskette
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: 08/435,509 FILING DATE: 05 MAY 1995 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: 08/340,558
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Patent No. 5724591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   36,537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEFAX: (415) 638-5846
TELEFAX: (415) 638-6071
INFORMATION FOR SEQ ID NO: 1:
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CLASSIFICATION: 435
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                                                                                                                                                                                NUMBER OF SECUENCESS
                                                                                                                                                                                                                                                                                                California
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                                                                                                                                                                                                                                                                               CHY: Memby Park
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                                                                                          GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                               COUNTRY: USA
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                                                                                                                                                                                                                         ADDRESSEE:
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                                                                                                                                                                                                                                          ADDRESSEE:
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                                                                       Partent No.
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                   RESHLI 18
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TITLE OF INVENTION: System for real time detection of nucleic acid amplification g
NUMHER OF SEQUENCES: 3
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                                                                                                                                                                                                                                                        74.0%; Score 14.8; DR 1; Length 26; 88.9%; Pred, No. 6.1e+02; atlive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       74.0%; Score 14.8; DB 1; Length 26; 88.9%; Prod. No. 6.1e+02; ive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: Microsoft Word for Windows, vers. 2.0 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/OB/657,989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Scott R. Bortner, Perkin-Elmer, Inc.
STREET: 850 Lincoln Centre Drive
CITY: Foster City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Windows 3,1/DoS 5.0
               RR, 462
ER: PELM4264CIPE
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MEDIUM TYPE: 3.5 inch diskette
COMBUTER: IHM compatible
OPERATING SYSTEM: Windows 3.1/1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 44,298
REFERENCE/DOCKET NUMBER: 4 410
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                            : Sequence 3, Application 08/08657989
; Patent No. 573633
                                                   TELECOMMUNICATION INFORMATION:
                                                                   TELEPHONE: (415) 233-018B
TELEFAX: (415) 233-1129
TNPORMATION FOR SEQ ID NO: 9:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (415) 638-6245
(415) 638-6071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
             REGISTRALION NUMBER: 48, REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                 Z. AGGIRCHICATGOGGGAGG, 19
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                                                                                                                                              LENGTH: 26 nucleotides
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                                                                                                                             SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION FOR SEC ID NO:
                                                                                                                                                               TYPE: nucleic acid
STRANDEDNESS: single
Meri 1
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
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US OB 559 405 9
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                                                                                                                                                                                                                                                                         Bost Local Similarity
Matches 16; Conserv
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APPLICANT: Timothy M. Wondenberg, Kovin S. Bodner, Charles R. Connell, Alan M. TILLE OF INVENTION: System for real time detection of nucleic acid amplificatio
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Pred, No. 6.1e+02;
0; Mismatches 2; Indels
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                                                                                                                             TITLE OF INVENTION: HYBRIDIZATION ASSAY USING SELF
TITLE OF INVENTION: JUBNISHIM FLUORESPENCE PROBE
                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: THM compartible OPERATING SYSTEM: Microsoft Windows (1700S-5.0
                                                                                                                                                                                                                                                   St. Haynes & bavis
ZlBe Sand Hill Read, Suite 310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Wordported for windows 6.0, SOFTWARE: ASCII (DOS) TEXT format
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/LOCKET NUMBER: PELM4264C1P2.TELESOMMONICATION INFORMATION:
                                                                            APPLICANT: Perkin Elmer Corporation,
APPLICANT: Applied Biosystems Division
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/558, 303
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MEDIUM IVPE: 3.5 inch diskette
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FILING DATE: 16-NOV-94
ATTORNEY/AGENT INPORMATION:
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Patent No., 5928907
Sequence 9, Application 08/08598303
Patent No., 5876930
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                                                                                                                                                                                                                              David J. Weitz,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  74.0%;
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INFORMATION FOR SEQ. ID NO: 9
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REGISTRATION NUMBER:
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ADDRESSEE: Stephen C
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21P; 94404
COMPUTER READAISTE PORM;
                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
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APPLICANT: Timothy M. Woudenberg, et al.
TITLE OF INVENTION: SYSTEM FOR REAL TIME DETECTION OF NUCLEIC ACTIO
TITLE OF INVENTION: AMPLIFICATION PRODUCTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUMBER OF SECTENCES: 3
CORRESSONDENCE ADDRESS:
ADDRESSEE: David J. Weitz, Wilson Sonsini Goodrich & Rosati
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C
                                       Score 14.8: bb 2; Length 26;
Pred. No. 6.1e+02;
0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         74.0%; Score 14.8; DB 2; Langth 26; 88.9%; Pred. No. 6.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fatentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                    APPLICANT: Kaansa, Robert P.
APPLICANT: Wendemberg, Timothy M.
APPLICANT: Marmato. Jettrey M.
HILL OF INVENTED: (Ptical Tube and Method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                              450 Camb. idge Avenue, Suite 250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: Strationd, Carol A. REGISTRATION NUMBER: 34,444 REFERENCE/PUTKET NUMBER: 0550-0052
                                                                                                                                                                                                                                                                                                                                                                                                                                             Dehlinger & Associates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/568,606
FILING PAIE: 05-DEC 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                          Sequence 3. Application US/U85686U6
Palent No. 597275
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 3, Application US/09046114
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                                     74.0%;
88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (415) 424-0880
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INPORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
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                                                                                                                    2 Additional Alfadada Add 19
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Best Local Similarity 88.99
Matches 16; Conservative
                                                                                                                                           22 AGGA FGG AT GGGGGAGG 5
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                                     Query Match
Bost Local Similarity 88.99
Matches 16, Conservative
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APPLICANI: Timothy
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IIS-08-568-606-470
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US-09 046-114-9/0
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  US-08 649-224A 6
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1111b: OF INVENTION: METHOD AND REAGENT FOR DETECTING MULTIPLE NUCLEIC ACID SEQUEN
CUPRESSOUNDENCE ADDRESS: 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 14.8; DB 2; Langth 26;
Pred. No. 6.1e+02;
0; Mismatches 2; Indels
              GPERATING SYSTEM: Windows 3.1/DOS 5.0
SHEWARE: Microsoft Word for Windows, vers. 2.0
APPLICATION NAFE: 08/08/752,973
FILING DATE: 02-DEC-1996
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**PERALING SYSTEM: System 7.0.1
SysTWARE: Microsoft Word 5.1a
TSPELICATION DATA
APPLICATION NUMBER: 08/08/639,224A
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I: 100 Abbott Park Road
Abbott Park
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                                                                                                                                                      APPLICATION NUMBER: 08/235,411
FILLING DATE: 29-APK-94
                                                                                                                                                                                                                    NAME: Stephen C. Macevicz
Feblsztafton NOMBER: 30,285
FEBENZEZONSKET NUMBER: 4241
IELECOMMUNICATION INFORMATIONS
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FELE/OMMUNICATION INPORMATION:
TELEPHONE: 708/000 3508
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                                                                                                                                                                                                                                                                                                | FTEPHONE: (415) 458-7855
| FEEFAX: (415) 458-7794
| INFOPMATION FOR SEQ. 1D NO. 3: SECIENCE: CHARACTERISTICS:
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IBM compatible
                                                                                                                                                                           FILLING DATE: 29-APR-94
ALTORNEY/AGENT INFORMATION:
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es 16, Conservative
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NAME: Paul D. Yasqer
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                                                                                                                                                                                                                                                                                                                                                                               LENGTH: 26 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
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TELEPHONE: 7087 - ...
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                                                                                                                                     PRIOR APPLICATION DATA:
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US-08 252-974-4
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                                                                                                FILING DATE: 02 CLASSIFICATION:
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FILLING DALE:
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                        FILLING DATE:
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US 08 869 276 2070
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APPLICANT: Applied Riosystems Division
TITLE OF INVENTION: HYBRIDIZATION ASSAY USING SELF QUENCHING FLUORESCENCE PROBE
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Pred, No. 6, Lev02;
0; Mismatches 2; Indels
                                                                                                                                                       OPERATING SYSTEM: Microsoft Windows 4.1/Dog 5.0
SOFTWARE: Wordperfect for windows 6.0,
SOFTWARE: ASCII (Dog) TEXT format
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STREET: 2180 Sand Hill Road, Suite 310
CITY: Memlo Park
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APPLICATION NUMBER: 08/09/207,170A
                                                                                                                                                                                                                                       APPLICATION NUMBER: US/09/046,114
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APPLICATION NUMBER: 08/235,411
APPLICATION NUMBER: 08/235,411
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/752,973
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Patent No., 6030787
                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: December 2, 1996
ALFORNEY/AGENT INFORMATION:
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650 Page Mill Road
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                                                                                                                                      COMPUTER: IBM compatible
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Hest Local Similarity 88.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                      David J. Weitz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: single
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MEDIUM TYPE: 3.5 inc
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                    CITY: Palo Alto
SIATE: California
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                                                         COUNTRY: USA
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Prod. No. 6.1e+02;
0; Mismatches 2; Indels
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APPLICANT: Resmonster, Randy P.
TITLE OF INVENTION: Monitoring Hybridization During PCT
NUMBER OF SEQUENCES: Z2
CORRESPONDENT ALGORES: Z3
ADDRESSEE: Thorpe, No. 6124670th & Western, E.L.P.
SIREEL: 90.05 South 700 East, Suite 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIUM 1YPE: Diskette, C.5 inch, 1.44 Mb storage
COMPUTER: Toshiba 12150/DS
                                                                                                                                                                                                                                                    REPERENCE/DOCKET NUMBER: PELMA 264/11/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCEZIOCKEI NUMBER: BELGLOIPZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 08/818, 267
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 20, Application US/ORM69276
Patent No. 6124670
APPLICATION NUMBER: 08/340,558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IYPE: nucleic acid
STRANDEDNESS: single stranded
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                                                                                                                                                                                                          48, 462
                                                                                                                                                                                                                                                                                                         TELECOMMUNICATION INFORMATION: TELEPHONE: (415) 233-0188
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMONICATION INFORMATION: TELEPHONE: (R01)566-6633
                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: (415) 234-018B
TELEPAX: (415) 234-1129
INPOMALION FOR SEQ 10 No. 9;
SECHENCE CHARACTERISTICS:
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88.9%;
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APPLICANT: Wittwer, Carl T.
                                                                                               ATTORNEY/AGENT INFORMATION:
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PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (801)566 0750
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REGISTRATION NUMBER: 3
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                                                                                                                                                          David J. Weitz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READARDE FORM:
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                                                                                                                                                                                                    REGISTRATION NUMBERS
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Z1P; 84070
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                                            U; Gaps
                                                                                                                                                                                                                       Sequence 20, Application US/U9635444

Patent No. 6232079

GENERAL INFORMATION:
APPLICANT: WILLWART CAFT T.
APPLICANT: RITIE, KITK M.
APPLICANT: RASMUSSED, Randy P.
ITHE OF LIVENILES: 27
CORESPONDENCES: 27
CORESPONDENCE ADDRESS:
STREET: 9035 SOUTH 700 East, Suite 200
CITY: Sandy
Query March 74.0%: Score 14.8: DB 4; Length 26:
Best Cocal Similarity 88.9%: Pred. No. 6.1e+62;
Matches 16: Conservative 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            74.0%; Score 14.8; DB 4; Length 26; BB.9%; Pred. No. 6.1e+02; attive 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Diskette, 4.5 inch, 1.44 Mb storage comPUTER: Toshiba T2150CDS cubeALING SYSTEM: Windows 95 SCHWARE: Word Perfect 7.0 cureENT APPLICATION DATA: APPLICATION NUMBER: US/U9/6-65, 444 FILLIO DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEGISTRATION NUMBER: 36,554
FEGISTRATION NUMBER: 36,554
FEFFENCE/DOCKET NUMBER: 8616.CIP7
TELECOMMUNICATION INFORMATION:
IFLEFHONE: (80.1),566-6633
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Search completed: March 18, 2003, 12:09:01
Job time : 41.1967 sees
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE:
PRIOR APPLICATION DAFA:
APPLICATION NUMBER: US 08/818,267
FILING DATE: 17-MAR-97
AFF-KNEY/AGENT INFORMATION:
NAME: Alan J. HOWAITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
PRICK APPLICATION DATA:
APPLICATION NUMBER: 08/869,276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGIH: 26 base pairs
1YPE: nucleic acid
STRANDEDNESS: single-stranded
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### AGGATGGCATGGCAGG 5
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Matches 16, Conservative
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| KY: USA
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US-09-6-45 444-2070
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General Series Series 5.1.4_p5_4578 copyright (c) 1993 - 2003 Computer Ltd.

OM nucleic - nucleic search, using sw model

Run on:

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Sequence:

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Pred. No. is the number of results predicted by chance to have a

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4 15.8 79.0 49 6 AXXIB637 5 15.8 79.0 49 6 AXXIB633 6 15.8 79.0 45 6 AXXIB632 11 14.8 79.0 45 6 AXXIB622 11 14.8 69.0 21 6 AXVIB622 11 14.8 69.0 21 6 AXVIB622 12 14.4 67.0 21 6 AXVI223 13 14.4 67.0 21 6 AXVI223 14 14.4 67.0 21 6 AXVI223 15 14.4 67.0 21 6 AXVI223 16 14.4 67.0 21 6 AXVI223 17 14.4 67.0 21 6 AXVI223 18 14.4 67.0 34 6 AXVI223 18 14.4 67.0 34 6 AXVI223 22 11.2 66.0 34 6 AXVI223 23 11.2 66.0 34 6 AXVI223 24 11.2 66.0 34 6 AXVI233 25 11.2 66.0 34 6 AXVI233 26 12.2 66.0 34 6 AXVI323 27 12.8 66.0 34 6 AXVI323 28 11.2 66.0 34 6 AXVI323 29 12.8 66.0 34 6 AXVI333 20 12.8 66.0 34 6 AXVI333 20 12.8 66.0 37 6 AXVI333 21 12.8 66.0 37 6 AXVI333 22 12.8 66.0 37 6 AXVI333 23 11.2 66.0 24 6 AXVI333 24 12.6 64.0 25 6 AXVI333 25 12.6 64.0 25 6 AXVI333 26 12.6 64.0 27 6 AXVI333 27 12.8 64.0 27 6 AXVI333 28 12.6 64.0 27 6 AXVI333 29 12.6 64.0 27 6 AXVI333 20 12.7 64.0 27 6 AXVI333 20 12.8 64.0 27 6 AXVI333 21 12.7 64.0 27 6 AXVI333 22 12.8 64.0 27 6 AXVI333 23 12.2 64.0 27 6 AXXI333 24 12.6 64.0 27 6 AXVI333 25 12.2 64.0 27 6 AXXI333 26 12.2 64.0 27 6 AXXI333 27 12.4 62.0 27 6 AXXI333 28 12.2 64.0 27 6 AXXI333 29 12.2 64.0 27 6 AXXI333 20 12.2 64.0 27 6 AXXI333 20 12.2 64.0 27 6 AXXI333 21 12.2 64.0 27 6 AXXI333 22 12.2 64.0 27 6 AXXI333 23 12.2 64.0 27 6 AXXI333 24 12.2 64.0 27 6 AXXI333 25 12.2 64.0 27 6 AXXI333 26 12.2 64.0 27 6 AXXI333 27 12.2 64.0 27 6 AXXI333 28 12.2 64.0 27 6 AXXI333 29 12.2 64.0 27 6 AXXI333 20 12.2 64.0 27 6 AXXI333 20 12.2 64.0 27 6 AXXI333 21 12.2 64.0 27 6 AXXI333 22 12.2 64.0 27 6 AXXI333 23 12.2 64.0 27 6 AXXI333 24 12.2 64.0 27 6 AXXI333 25 12.2 64.0 27 6 AXXI333 26 12.2 64.0 27 6 AXXI333 27 12.2 64.0 27 6 AXXI333 28 12.2 64.0 27 6 AXXI333 29 12.2 64.0 27 6 AXXI333 20 12.2 64.0 27 6 AXXI3333 20 12.2 64.0 2		18	2.5	44		9	A06666 Deoxyclidor
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15. 17.		2.	- 1	J .		362	Ax018623 Sequence
15. 7. 16. AXO18545 15. 7. 17. 17. 18. 15. 17. 47. 19. 19. 15. 17. 47. 19. 19. 15. 17. 47. 19. 19. 15. 17. 47. 19. 19. 15. 17. 47. 19. 19. 15. 17. 47. 19. 19. 15. 17. 47. 19. 19. 15. 17. 47. 19. 17. 17. 47. 19. 17. 17. 47. 19. 17. 17. 47. 19. 17. 17. 47. 19. 17. 17. 47. 19. 17. 17. 47. 19. 17. 17. 47. 19. 17. 17. 47. 19. 17. 47. 47. 47. 17. 47. 47. 47. 17. 47. 47. 47. 17. 47. 47.		<u>.</u>	7 /	C 77		240	AX443467 Sequence
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Unknown. Unknown.

RESULT 1 106.215 10.0019 10.0019 ACTESSION 1 VEKSTON 1 VEKSTON 1 SOURCE 1

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Mindshan Strattords.

Mindshan, S.M., Mitrophanons, K., Patterson, A.V., Strattord, L.J., driftiths, L. and Kan, O.
Enhanced produce activation
Patent: WO 9945126-A 41 10-SEP 1999;
MINDSMAN BASAN MARY (GB): MITROPHANOUS KYRIADOS (GB): PATTERSON ALAMA VORN (GB): OXFORD IAN IAMES (GB): GRIFFITHS LEIGH (GB): KAN ON (GB): OXFORD BIOMEDICA LID (GB):
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Sequence 14 from Patent W00209645.
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Sequence 13 from Patent We0209645.
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Sequence 40 from Patent We9945127.
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KINGSMAN SUSAN MARY (GB): MITROPHANOUS KYRIAC'S (GB): FATTERSON ADAM VORN (GB): STRATEORD IAN JAMES (GB): GRIFFIIHS LEIGH (GB): RAN ON (GB): OXPORD BLOMEDIA LTD (GB)
LOCATION/QUADITIERS
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ON (GB): OXFORD BEOMEDICA LID (GB)
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1 (bases 1 to 46)
Kingsman, S.M., Mittophanous, K., Patterson, A.V., Strafford, L.F.,
               artificial sequences.
1 (bases 1 to 46)
Kingsman, S.M., Mitrophanous, K., Patterson, A.V., Stratford, L.L.,
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/db_xret "taxon:32640"
/note-"primet"
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/db_xret "taxon:12630"
/note-"primer"
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Sequence 165 from patent US 6258600,
                                                                              Enhanced prodrug activation
Patent: Wo 9945127-A 40 10-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Enhanced prodrug activation
Putent: Wo 9945126-A 40 to SEP 1999;
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AX018622
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Kuter,P. and Zippelins,A.
NOVEL PRIMERS AND METHODS FOR THE DELECTION OF SESSEMINATED TUROR
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NOVEL PRIMERS AND METHODS FOR THE DELECTION OF DESCRINATED TUROP
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Patent: US cabacco A 165 to JUL 2001;
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KUPER PELEE (DE); MICROMEL GMBH (DE)
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KUPER PELEK (DE); MICKOMEL GMINH (DE)
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Zdb xret "taxon: $2644"
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Zdb. xref "taxon: 82644"
a 6 c 5 q
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Sequence 7 from Patent WO9846288.
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       Zhang, H. and Cowsert, L.M.
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93.3%; Pred. No. 4e+04;
ive 0; Mismatches 1; Indels
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Score 13.8; DB 6; Length 21;
Pred. No. 2.4e+04;
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/db_xref "taxon:32630"
/note "Primer"
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Patent: WO 0218561-A 71 07-MAR-2002;
DSM N.V. (NL)
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Patent: EP 1184460-A 71 06-MAR-2002;
BSM N.V. (NL)
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Sequence 71 from Patent EP1184450.
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Guery Match
Rest Local Similarity 88.2%;
Matches 15: Conservative 0
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Matches 14; Couservative
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   PAT 23 MAR 21112
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Bedilied fundal xylanäses
Fortent: EP 1184460-A 6d 06-MAR-2002;
USM N.V. (NL)
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   linear
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Coranism "synthetic construct"
Ab_xret "taxon: 22630"
/note "Primer"
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Aordania "synthetic construct"
/db_xret " axon; 426.40"
/hole "Filmer"
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Patent: Wo 0z18561 A 68 07 MAR-2002;
ESM N.V. (NL)
33 bp
Sequence 68 from Patent WoU218561.
AX:99547
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Sequence 69 from Patent EP1184460.
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                                                AX:91222.1 GI:19699896
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Rest Local Similarity 93.39
Marches 14, Conservative
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feat Local Similarity 93.5
Matches 14: Conservative
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                          van den Hombergh,J.P., van der Laan,J.M., Menke,H.H. and Daram,J.M
                                                                                                                                                                                                                              0; Gaps
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/db xret "taxon:32630"
/note "Primer"
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Zdb_xret "taxon:42630"
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Modified fungal xylanases
Patent: Wo 0218561 A 69 07-MAR 2002;
DSM N.V. (NE)
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0; Mismatches
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Patent; EP 184460 A 69 06 MAR 2002;
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Patent: EP 1184460-A 70 06-MAR 2002;
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Bost Local Similarity 93.3
Matches 14; conservative
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Mammalia, Petteria, Primates, Cataribini, Hominidae, Home.
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Ribozyme Therapy for the treatment of proliferative skin and eye
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Media der and xylanases.
Patent: We old HSG1-A 70 07 MAR 2002;
DSM N.V. (NL)
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84.33; Pred. No. 5.1ec04;
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/db/xref "taxon:9606"
/note "Cyclin P ibozyme binding site"
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Zdb.xret "taxon:42640"
Zote "Primer"
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Pred, No. 40004;
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AXI 31.206
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Sequence 70 from Patent We0218561.
AX399549
/db xref "taxon; Q630"
/note "Primer"
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Location/Qualifiers
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83.3%; Pred. No. 5.1e+04;
Live 0; Mismatches 3; Indels
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83.3%; Pred. No. 5.1e+04;
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Kres.A.K. and Hendeker.R.F.
APPLICATION OF PHOSPHOLIPASES IN ANIMAL FEED
APPLICATION OF PHOSPHOLIPASES IN ANIMAL FEED
GIST HENCADES BV (NL)
LOCATION/QUALITIES
                                                                                                                                                                                                                                                 Roudeker, K.F. and Kies, A.K.
Application of phospholipases in animal feed
Extent: EP 074 (017-A 2 20-NOV-1996;
GIST BROYADES BV (NL)
Other publication AU 5225596 961128
other publication CA 2176644 961116
other publication NL 1003096 960905;
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/db_xret "taxon:32644"
a 11 c 10 q 12
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/db_xret "taxon:32644"
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Best Local Similarity 83.39
Matches 15, Conservative
15; Conservative
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Matches 15, Conservative
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Pred. No. 5.lev04;
O; Mismatches 3; Indels
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               linear
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B3.3%; Pred. No. 5.le:04;
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Mondeker, K-Franciscus, and Kies, A.Ka
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